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PARAMETRIC BLADE STUDY TEST REPORT ROTOR CONFIGURATION NO. 1

C. Herbert Law Steven L. Puterbaugh Technology Branch Turbine Engine Division



November 1988

Interim Report for Period 1 January 1987 - 31 May 1988

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PREFACE

This report was prepared by Dr. C. Herbert Law and Steven L. Puterbaugh of the Technology Branch, Turbine Engine Division, Aero Propulsion Laboratory, Air Force Wright Aeronautical Laboratories, Wright-Patterson AFB, Ohio. The work was accomplished between 1 January 1987 and 31 May 1988. This work could not have been so successfully accomplished without the expert technical assistance of Dr. Arthur J. Wennerstrom, Mr. Robert D. DeRose and Mr. Robert Wirrig.

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This report represents results from a portion of the effort of the Compressor Research Group, supervised by Dr. Arthur J. Wennerstrom, and was conducted under Work Unit 27, Task S1, of Project 2307, "Turbomachinery Fluid Mechanics."



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SECTION I

INTRODUCTION

This report presents the results of an experimental evaluation of one compressor test of a series of design parameter investigations. In total, eight rotor design configurations (including one baseline and seven variations) and two stator design configurations (including one baseline and one variation) were included in the study. The rotor/stator configuration which was considered as the baseline compressor configuration was initially described in Reference 1 ("Redesign of a Rotor for a 1500 ft/sec Transonic, High-Through-Flow, Single-Stage Axial-Flow Compressor with Low Hub/Tip Ratio," September 1979). That compressor configuration was designated the "BASELINE" and subsequently referenced and compared with the other configuration designs and test results to determine specific design parameter effectiveness.

The primary purpose of the "Parametric Blade Study (PBS)" was to investigate the effects of specific rotor blade design parameters on the performance of one compressor configuration of current interest with state-of-the-art performance. It was the intent of the program to vary only one design parameter at a time, keeping the other parameters as closely as possible to their original baseline design values. Specifically, rotor configurations numbered 1 and 2 were designed to investigate the effectiveness of the chordwise location of maximum blade thickness on rotor performance. Rotor configurations numbered 3 and 4 were designed to investigate the effect of the suction surface shape ahead of the

leading edge passage shock on performance and to determine the interrelation of the suction surface shape and the cascade throat area. Rotor configuration number 5 was designed to determine the influence on performance of "effective camber" of the blade, or loosely to determine the circulation capacity of the cascade. Finally, rotor configurations numbered 6 and 7 were designed to investigate the potential gain in rotor performance through the introduction of effective aerodynamic leading edge sweep and accompanying reduced shock strength and associated losses.

The overall objective of this study was to perform the aerodynamic design of a series of seven transonic compressor rotors, all parametrically related, fabricate and test all of the rotors (plus re-test the original baseline rotor) and compare their performances to the baseline compressor rotor. The baseline rotor and each of the seven parametrically similar rotors are described as high-through-flow, high-aerodynamic-loading, low hub/tip ratio first stage compressor or fan rotors. The original baseline hub, case, and leading/trailing edge envelope was preserved to the maximum extent practical. All designs were accomplished using comparable computer design systems, all hardware was manufactured by the same contractor using identical fabrication specifications, and all experimental tests were conducted in the same test facility using the same instrumentation and data acquisition system, and under similar environmental conditions.

SECTION II

DESIGN APPROACH

In an attempt to define the effect of the location of airfoil maximum thickness on rotor blade performance, PBS rotor configurations numbered 1 and 2 were designed with maximum thickness locations at the tip different from the baseline rotor design. In all cases, maximum thickness at the hub was held at the original position of 55% chord and the changes were linearly distributed along the span to the new values defined at the rotor tip. PBS rotor configuration number 1 was designed with the maximum thickness located at 40% of meanline length (measured from the leading edge), whereas PBS #2 was designed with maximum thickness located at 55% and the baseline rotor had maximum thickness located at 70%, all referenced to the tip section. Early research by NASA generally indicated that it was desirable to move the location of maximum thickness aft as the relative inlet Mach number increased. However, there is an incentive to move the location of maximum thickness forward to minimize bird strike damage. Also, inasmuch as most modern fan tip sections and the baseline rotor have S-shaped camber lines at the tip, a shift of thickness (equals blockage) forward tends to straighten out the airfoil; there is less negative camber followed by less positive camber. This could conceivably improve the aerodynamic performance through reduced surface curvature and possibly deviation. In effect, no controlled tests had been made to-date (with state-of-the-art transonic airfoil shapes) to help the compressor designer optimize transonic rotor blade performance with respect to thickness distribution.

Using the "data match" baseline rotor design described in the Parametric Blade Study report introductory volume (Reference 2, "Transonic Fan/ Compressor Rotor Design Study," Volume I, February 1982) as the starting point for the new design, the annulus blockage at the internal blade stations was adjusted to be consistent with the modified airfoil thickness distribution. The chordwise distribution of work was adjusted to maintain a static pressure distribution similar to the baseline design, blade meanline departure angles were adjusted to maintain similar throat areas and flow induction capacity, and the hub contour was modified slightly to account for the modified blockage distribution and to maintain a similar static pressure distribution at the hub. Specific details concerning the design procedure, the design computer program, and blade aerodynamic and structual characteristics may be obtained from the design report (Reference 3, "Transonic Fan/Compressor Rotor Design Study," Volume II, February 1982).

SECTION III

TEST APPARATUS

FACILITY FLOWPATH

The test facility used is of the closed-loop variety shown schematically in Figure 1. In the loop, air passes through the 30-inch diameter inlet duct to a Universal Venturi Tube located six pipe diameters downstream of the return tube 90-degree elbow. Two pipe diameters further downstream, the air is turned 90 degrees with the aid of turning vanes. Screens are installed perpendicular to the pipe axis just above the elbow, and in the trailing edge plane of the turning vanes to prevent feedback related to flow separation on the turning vanes from reaching the venturi. Following the elbow, the flow passes through a tube bundle and subsequently enters a 48-inch diameter settling chamber. The settling chamber contains a perforated conical flow spreader and two screens. From the settling chamber, air enters the compressor through a direct-coupled bellmouth. Air leaving the compressor is deflected radially outward to a peripheral throttle. The throttle consists of one stationary and one rotating cylindrical ring, each with 16 circumferentially distributed matching holes. Throttling takes place at a diameter of approximately 47 inches. The throttle is designed to vary continuously from fully closed to fully open. Position indication varies linearly with throttle open area and has a resolution of one part in 200. Downstream of the throttle, the flow enters a collector, from which it is passed through a 24-inch diameter duct to the heat exchanger and filter. Cooling of the air

is accomplished using a circulating water, finned-tube heat exchanger. The air is filtered to remove five micron particles with a 99.5 percent efficiency. After passing through the heat exchanger and filter, the air returns to the facility through the 30-inch diameter inlet duct. The air is turned 90 degrees with the aid of turning vanes before entering the heat exchanger vessel and again before entering the inlet duct. Upstream of the heat exchanger a perforated conical flow spreader is installed to uniformly distribute the air across the entire heat exchanger/filter grid.

For this test, a modification was made to the facility throttle to increase the flow capacity and decrease the back-pressure at the wide-open throttle position. Eight large holes were drilled in the throttle plate to reduce the metal blockage area by 50% (wide-open position). Cover plates were fabricated to cover the holes when not needed. During this test, it was discovered that there was a slight gain in flow capacity with all (except one, which was difficult to remove and replace because of limited access) cover plates removed. However, with the throttle in this configuration, recovering from surge (by opening a surge valve to bypass the throttle) was slow or impossible at high rotating speeds without first opening the throttle some amount. A test procedure was hence adopted to obtain a compressor map in two phases. The first phase was conducted with one throttle cover plate installed to get the high-flow end of each speed line on the compressor performance map, being careful to avoid the surge-line at all speeds. The second phase was conducted with four throttle cover plates installed (distributed uniformly around the

circumference) to get the mid-flow and low-flow ends of each speed line and to determine the surge-line at all speeds. Data were taken at each speed line during both test phases to sufficiently map the compressor performance at each speed with some overlap of throttle settings to assure that continuous and consistent results were obtained. This test procedure was used for all PBS rotor configurations investigated.

2. COMPRESSOR TEST VEHICLE

A cross-section of the research compressor is shown in Figure 2. The design employs a cantilevered rotor supported by four 0.5inch-thick bearing support struts with leading edges located about two stator chord lengths downstream of the stator trailing edge plane. The rotor tip diameter is nominally 17 inches. Cold radial tip clearance with the rotor at rest was nominally 0.030 to 0.045 inches, depending on the rotor configuration and axial location. Hot clearance was measured with an active, non-touching spark-gap type clearance measuring system at the rotor leading edge and mid-chord regions at two circumferential locations. The average hot clearance at design speed was found to be approximately 0.020 to 0.025 from leading to trailing edge for all rotor configurations, or about 0.6 percent of the rotor tip chord. The variation of rotor tip clearance with rpm is shown in Figure 2. The rotor shaft is mounted on an oil-damped roller bearing at the forward location and a ball bearing at the aft location; radial runout does not exceed 0.001 inch. Forward and aft buffer controlled gap carbon seals were used and no oil leakage into the flowpath was detected. This

configuration uses no inlet guide vanes. Surface finish on all surfaces adjacent to the flow upstream of the bearing support struts is 32 microinches or better. The rotors were all of integral construction, the blades and discs being machined from single forgings of 6A1-4V titanium (one forging per rotor configuration). The stator was fabricated as an integral ring machined from AMS 5616.

3. COMPRESSOR INSTRUMENTATION

Aerodynamic instrumentation in the compressor consists of measuring probes in the stator leading edges for total pressure and temperature, rakes downstream of the stators for total pressure and temperature, static pressure taps on the inner and outer flow paths, dynamic pressure measurements along the casing wall over the rotor tip, and dynamic strain gage measurements at several points on the rotor blades. Measurements of inlet total pressure and temperature, mass flow, relative humidity, and rotor speed are accomplished outside the compressor and are discussed below. The compressor research vehicle has a total of 276 sensors measuring aerodynamic parameters at various points throughout the stage. Some static pressures are sensed at more than one point around the circumference at the same axial location and are either manifolded together or mathematically averaged to obtain a single measurement at the axial station. The specific instrumentation used is summarized in Table 1.

a. Temperature Measurements

(1) Location

A total of eighty-nine thermocouples are used to sense aerodynamic temperature within the compressor. Nine are mounted in the vane leading edges and eighty are located in ten discharge-plane rakes. The vane leading edge and rake mounted thermocouples are of the slot vented type shown in Figure 3. The discharge-plane rakes each have eight sensors, spaced at centers of equal area radially, while the rakes are uniformly distributed around the circumference and spaced to divide a single exit vane passage into ten equal parts. The nine stator leading edge thermocouple probes are distributed on two vanes; one having four sensors and the other having five. The sensors are uniformly spaced to radially divide the area between the hub and case into nine equal parts and are aligned with the anticipated pitch angle of the flow.

(2) Calibration

All thermocouples were fabricated from shielded three-eighths percent chromel-constantan (type E) wire. Sample thermocouples, constructed in the same manner as those mounted in the rakes and probes, were sequentially taken along the wire rolls at the start, in between, and at the end of each length of wire

used. An initial calibration of these samples was made using as standards a water triple point apparatus and two metal melting point baths (one each of indium and tin).

The absolute accuracy of the temperature standards, manufactured by the Yellow Springs Instrument Company, Yellow Springs, Ohio, are 0 degrees Celcius for the water triple point and less than 0.0015 degrees Celcius for the two metal melting point furnaces. It should be noted that each of these values are "defining points" on the International Practical Temperature Scale of 1968. The small error associated with the metal melt points can be attributed to slight differences between the ones used at this facility and the similar systems employed at the National Bureau of Standards which uses the freeze points rather than the melting points of the same metals. Stem conduction errors for thermocouples calibrated in these furnaces are so small as to be immeasurable because the actual junction is located several hundred wire diameters within the furnace.

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All thermocouples are connected to Kaye Co. electronic ice points used as the O degrees Celcius reference and have no intermediate metals in the circuit. The individual outputs are carried to the computer input circuitry via copper twinax conductors.

During experimental data reduction, the calibration data are used to construct a potential difference (NBS potential minus observed potential at the calibration temperatures) verses

observed potential curve. The raw data are then converted into engineering units by utilizing the calibration curve to establish a corrected value of the potential with which to enter the NBS reference tables. Although the thermocouples were referenced to 32 degrees Fahrenheit, this value can vary as long as the reference temperature is stable during a data scan (a small fraction of one second). The accuracy of the temperature measurements have been determined to be no worse than approximately plus or minus 1/4 degree Fahrenheit, excluding any recovery factor correction.

b. Pressure Measurements

(1) Location

A total of one hundred and twenty-five pressures are measured in the vehicle flowpath; thirty-six static pressures and eighty-nine total pressures. All of the thirty-six static taps are distributed on the compressor flowpath liners; twenty-four taps are located on the case and twelve are located on the hub. In all, casing static pressure measurements are made at fifteen axial locations (some of the measurements are averaged from multiple taps distributed uniformly around the circumference); twelve of these are located over the rotor tip, starting approximately 0.50 inch axially forward of the leading edge and following at 0.25 inch axial increments downstream. The twelve hub static taps are a stributed at three axial locations; one located in the gap between the rotor disc and the stator hub and the other two downstream of the stator exit.

Nine total pressure probes are mounted on the leading edge of two stator vanes, four probes on one vane and five on the other vane. The probes are located at the same radii as the stator leading edge total temperature probes and aligned with the anticipated pitch angle of the flow. All total pressure probes are of the Kiel stagnation tube design. The discharge-plane rakes each have eight probes, each at the same radius as the discharge-plane total temperature probes. discharge-plane total pressure rakes are also uniformly distributed around the circumference and spaced to divide a single exit vane passage into ten equal parts.

Located in conjunction with the static pressure taps placed over the rotor blade tips are twelve XTS-type Kulite dynamic pressure transducers. These transducers are recessed slightly in the METCO 601 (polyester aluminum) blade tip rub shroud on the casing adjacent to the rotor tip to prevent damage by a minor rotor rub. The transducers were referenced to local atmospheric pressure.

(2) Calibration

The pressure data acquisition system consists of ten ZOC modules ("ZOC" is an acronym of the Scanivalve Corporation, San Diego, California for "Zero, Operate, and Calibrate;" each module contains sixteen individually accessible transducers), a calibration unit, and a system microprocessor. Each ZOC module contains a pneumatic switching device which permits the calibration pressure selected by the calibration unit to be supplied to all

transducers in the module simultaneously. Three accurately measured (through independent high-accuracy sensors described below) calibration pressures (nominally 9 psia, atmospheric, and 15 psig) are recorded by the system during each data scan. The non-atmospheric calibration pressures are supplied by Ametek Model PK-30 self-regulating, primary deadweight type, pressure standards. The 9 psia pressure standard is enclosed in a sealed container which is kept at 100-200 microns Hq absolute pressure. Atmospheric pressure is used to correct to 15 psig calibration pressure to an absolute value. The three calibration pressures are monitored and recorded using a SONIX (Pressure Systems Incorporated, Hampton, Virginia) transducer and display unit. The SONIX transducer, model PS1050, has a pressure range of 4-50 psi with an achievable accuracy of plus or minus 0.01 percent of full scale over the full pressure range and a temperature range of -25 to 70 degrees Celcius. During a pressure calibration data scan (for this test, every data scan included pressure calibration data), outputs from the SONIX system were recorded and used to create calibration curves for all ZOC transducers.

The basic ZOC pressure scanning system is different from the single transducer/multi-port scanning valve system used previously. The ZOC system dedicates a pressure transducer to each data channel and provides a sensor output to the host computer several times per second. A controller automatically switches all ZOC modules from "operate" to "calibrate" and switches the calibration pressures during each data scan. The time required to record a test point which includes pressure calibration data takes

less than one minute. Temperature stability of the ZOC modules is maintained thru use of individual warm water constant temperature insulating jackets. Since the calibration pressures, supplied by low-flow dead weight testers, are switched into a common manifold, the bulk of this time is spent waiting for pressure stabilization to occur. Stabilization is determined by the host computer based on calibration manifold pressure readings given by the SONIX transducers. The acquisition of experimental data (excluding pressure calibration data) takes less than 2 seconds and is done at the beginning of a scan. This allows the test article operating point to be changed before the entire data scan is completed. By combining the time required for calibration data collection with the time required for test article thermodynamic stabilization, a greater number of test points for a given length of time can be accomplished.

c. Data Acquisition System

Test article performance and calibration data are collected by the Data Acquisition System (DAS). The DAS is comprised of a MODCOMP MODACS digital and analog I/O subsystem, a MODCOMP ATC communications I/O subsystem, and a high frequency analog data recording subsystem, all controlled by a host computer. The host computer is a MODCOMP Classic II/15 16-bit microprocessor with 512 kbytes of memory. Additional peripherals include 40 mB of disk space, a magnetic tape drive, a high speed line printer, a system console, and two user consoles. The operating system is MODCOMP's real-time, multi-tasking MAX IV OS.

The MODACS is a modular I/O system configured for the facility's specific needs. The information which passes through the system includes thermocouple voltage input, test article rpm input, control I/O for the tape search unit and pulse processing unit of the analog recording subsystem, channel select for analog tape digitization, and voltage output for speed control and performance map display.

The ATC is a serial communications device for up to 12 RS-232 and 4 current loop terminal-type devices. Five devices are currently connected to the ATC, including two user consoles, the ZOC pressure data acquisition subsystem, the SONIX pressure data acquisition subsystem, and a local area network port.

The high frequency analog recording subsystem consists of a Bell and Howell model VR-3700B 14-track analog tape deck, a Datachron model 3030 tape search unit, a Honeywell model SAI-48 Correlator and Signal Averager, and a custom pulse processing box. This system is used to record and digitize output from Kulite dynamic pressure transducers and blade-mounted strain gages.

All DAS software was developed in-house and is comprised of a group of tasks, the vast majority of which was written in FORTRAN IV, with the remainder written in MODCOMP Assembler language. Capabilities include real-time update of test article performance parameters, automated data recording, and DAS health monitoring. The DAS, software, and all pressure and temperature

measurement systems employed in these tests are new and the subject of a detailed accuracy and reliability analysis and report to be published at a later date.

4. TEST FACILITY INSTRUMENTATION

a. Rotor Speed

A Bentley Model 306 transducer senses six grooves machined into the gearbox/rotor driveshaft coupling. The output is fed into a Model 3115 proximitor for signal conditioning. The proximitor signal is a train of pulses having a repetition rate corresponding to rotor RPM/10. This repetition rate is directly recorded by the DAS. An Airpax Model Tachtrol 3 tachometer (Airpax Division of North American Phillips, Ft. Lauderdale, Florida) provides a visual indication of rotor speed accurate to ten RPM. The tachometer also includes an adjustable speed limiting switch as a safety feature.

b. Mass Flow

The inlet flow is metered through a 30-inch Universal Venturi Tube manufactured by B.I.F. Industries with a 17.400-inch throat. Meter accuracy has been calibrated to plus or minus one-half percent by the manufacturer. Static pressure taps are located both in the throat and in the inlet cavity.

c. Inlet (Plenum) Total Pressure and Temperature

Compressor inlet total pressure is assumed equal to plenum static pressure just downstream of the last screen. Four static pressure taps are manifolded into two pressure sources and recorded on two separate ZOC channels. At maximum flow rate, the error is no worse than 0.003 psi, verified by calibration. Inlet total temperature is sensed by nine bare junction thermocouples located in the same axial plane as the pressure taps at three different radii in the plenum. The thermocouples are supported on two cables stretched across the inlet plenum.

d. Relative Humidity

A Foxboro Dewcel Model 2711TG-K222 was mounted in the inlet stack to monitor humidity. This device continuously measures the moisture content of the air by sensing the temperature at which the partial pressure of its water vapor is equal to the water vapor pressure of a saturated salt solution. The humidity is acquired by the DAS as a thermocouple output for every test point and subsequently treated in the data reduction program.

SECTION IV

TEST PROCEDURE AND DATA REDUCTION

1. TEST PROCEDURE

Test data were taken generally in order of decreasing speed, with several different compressor throttle settings being tested at each speed, generally in order of increasing throttle. Data were collected generally during two separate test periods (usually on two different days); one period with one throttle cover plate installed to get the high-flow end of the speed lines and another period with four throttle cover plates installed to get the mid-flow and low-flow end of the speed lines and the surge line (see the description of the facility throttle in the previous section). Data were usually taken at 100, 95, 90, 80, 60, and 40% of design speed; for some configurations, data were also taken at 70 and 50% of design speeds. Data were taken at the high speeds first to avoid the high cooling water temperatures experienced during periods of limited cooling facility capacity and the need to share cooling water with other facilities. Typical test periods were two to three hours in duration with as many as 50-60 data points being collected during the period.

For each speed line, test data were acquired at 10-12 throttle configurations (open, partially closed, with one or four throttle cover plates installed), some with an open surge valve. Although the open surge valve and/or one throttle cover plate configuration produced a slight asymmetry in throttling, the increased mass flow

this permitted expanded the operating range which could be mapped to a useful degree. For each speed line, the throttle setting (with four throttle cover plates installed) which induced stall was determined; several throttle settings in the operating range were then selected to complete the mapping of the speed line. Of the test data collected, seven test points which best described each speed line were selected after preliminary data reduction to be analyzed in more detail (and reported in this document). Multiple test points at the same conditions were acquired on different days to assure data integrity and repeatability; only one of the test points will be reported.

All test data were collected at some degree of depressed inlet pressure; however, all data were corrected to standard inlet conditions as reported herein. The degree to which the inlet pressure was depressed was based on two criteria: first, the ability of the depression system to keep up with small leaks into the many joints associated with the closed loop and second, the limited power output of the drive motor and maximum allowable time the motor could be operated with elevated motor winding temperatures. The elevated power requirements for the drive motor at 90-100% of design speed caused the motor windings to overheat. To permit adequate test time at these speeds to complete each survey, it was necessary to depress the inlet pressure to decrease the power requirements. More depression was required as the speed increased; minimum inlet pressure experienced was approximately 7-8 psia. Since the depression system is passive and operates by opening a bleed valve in the facility throttle, the amount of

depression achieved is determined by the length of time the bleed valve is open, the size of the bleed tube carrying the bleed air outside the test chamber, and the pressure difference between the throttle inlet pressure and atmospheric pressure. As the compressor speed decreases, the compressor total pressure ratio decreases (at constant throttle setting) and the inlet pressure increases until the exit pressure (at the throttle inlet) reaches a point where the bleed flow equals the combined air flow leaking into the facility flowpath joints (where outside atmospheric pressure is greater than the inside flowpath pressure). At the lower compressor speeds, however, the requirement for a depressed inlet pressure is not so great since the power requirements are reduced. A test procedure was adopted such that compressor inlet conditions and selected compressor instrumentation were monitored to assure that all test conditions had stabilized before data were collected, especially after any compressor speed change.

A nine-character test identification number was assigned by the DAS to each test point recorded in the format "XXYYZZAAA." Here "XX" is a two digit number indicating the year; "88" for 1988, etc. "YY" is a two digit number indicating the month; "01" for January, "02" for February, etc. "ZZ" is a two digit number indicating the day of the month; "01" for the first day, "02" for the second day, etc. "AAA" is a three digit number indicating the test point collected on that day; "001" for the first point, "002" for the second point, etc. Hence, for example, the thirteenth test point collected on 26 November 1987 would have a test point identification number as follows: 871126013. During each data scan,

a total of up to 950 data channels were scanned and recorded by the DAS (only 310 data channels were scanned and recorded if the data scan was a non-calibration scan).

DATA REDUCTION - PHASE I

Phase I data reduction was accomplished using the computer program similar to the one described in Reference 4 ("TESCOM Single-Stage Configuration Performance Data Reduction," April 1981). This computer program converts the raw data into engineering units, groups and displays the acquired data in a readable format, provides an initial analysis of compressor performance, and prepares an output of data required for the phase II aerodynamic analysis. Some of the features of the phase I data reduction program (named "DTREDIM") are as follows:

- a. On-line thermocouple calibration data were available and this data was utilized in the conversion of the thermocouple outputs into engineering units.
- b. On-line pressure transducer (steady state) calibration data were available and these data were utilized in the conversion of the transducer outputs into engineering units.
- c. Temperature effects were considered in calculating the gas mixture (air plus water vapor) the modynamic properties.

- d. Corrections were made to measured compressor temperatures and pressures, facility flowrate, and rotor wheel speed to correspond to standard inlet conditions of temperature and pressure.
- e. Corrections were made to the stage exit measured temperatures and pressures to account for both recovery and Mach number effects.
- f. Completed arithmetic averages of various quantities (where multiple measurements of the same parameter existed), such as plenum pressure and temperature, venturi inlet and throat pressures, and some static pressures.
- g. Completed circumferential mass-averages of stage exit total pressures and temperatures at the same radii.

Selected phase I analysis outputs for the test points at 90, 95, and 100% speeds are presented in Appendix A.

3. DATA REDUCTION - PHASE II

a. Basic Program Description

Phase II reduction of the test data was performed using the computer program named "PERCH" and described in Reference 5 ("Multistage Compressor Test Data Analysis Computer Program," July 1983). This computer program provides a detailed aerodynamic

analysis of the test compressor stage, utilizing the geometry of the stage and the phase I output data as inputs. Analysis of each test point is performed individually, although any number of test points may be analyzed in one computer execution.

The system of equations incorporated into the phase II computer program includes a full treatment of the axisymmetric equations of motion of an inviscid fluid, including blade-force terms, and the assumption of a thermally-perfect gas as the working fluid. The equations are solved in finite difference form by the streamline curvature method. Wake and boundary layer blockages, flow deviation, and/or work distributions within blade rows are either calculated or input as a user option in the computer program.

The phase II computer program was developed for the routine analysis of multi-stage variable geometry axial flow fan and compressor test data. The purpose of the program is to determine details of the flow within a compressor from test measurements, a description of the compressor geometry, and, when necessary, correlations of blade row performance. As a minimum, the program has the capability of analyzing up to 3 stages plus an inlet guide vane using up to 30 computing stations. However, the internal storage algorith does not limit any individual quantity, so that more than 3 stages can be accommodated if needed. The program has the ability to:

- (1) Read airfoil coordinates and compute basic airfoil parameters such as thickness, angles, etc., after resetting and/or cambering.
- (2) Accept test data and other aerodynamic parameters in a wide variety of forms.
- (3) Output details of the blade geometries, the flow field within the compressor, and blade and stage performance, plus data suitable for generating a wide variety of plots.

b. Across-Blade Analysis

Phase II across-blade analysis was performed for each test point on all speedlines. The computing station geometry for the across-blade analysis is shown in Figure 4. Note that computing stations may be radial, slanted, or curvilinear. The computing stations are defined in Table 2, and the conditions for analysis are defined in Table 3. Note in particular that the blockages were iteratively determined at the blade edges and in the exit where experimental casing static pressures could be matched by the calculated values. Elsewhere, blockages were either specified (input, constant valued) or linearly interpolated between the values calculated (or specified). Also, exit plane peak total pressures were used to determine the rotor exit total pressure distribution and exit plane total temperatures were used to

determine the rotor exit total temperature distribution, rather than using the measured stator leading edge total pressures and temperatures.

c. Thru-Blade Analysis

To obtain a more detailed picture of the flow within the compressor stage, three test points were chosen for thru-blade analysis, all at design speed: the test point nearest the design (operating) point, the test point with maximum stage efficiency, and the test point with maximum stage pressure ratio. The more detailed analysis involved the introduction of four additional computing stations within the rotor. The thru-blade analysis computing station geometry is shown in Figure 5, the computing stations are defined in Table 4, and the conditions for analysis are defined in Table 5. Note in particular that the blockages were either calculated to match measured casing static pressures or linearly interpolated between calculated values at the rotor internal computing stations. The decision to interpolate blockage rather than match casing static pressure at some computing stations was made as the result of the calculated distributions of work, deviation, and blockage. Attempting to calculate blockages to match measured static pressures at every computing station produced implausible distributions of either or both blockage and deviation, unless unlikely work distributions were specified. The best overall result was to interpolate blockage at some rotor internal computing stations, which produced smooth distributions of the stated parameters. One possibility is that the casing static pressures may

have been disrupted by local disturbances, such as shock interactions with the casing or blade surface boundary layers; the casing static pressures might, therefore, not represent a true measure of the flow characteristics across the entire rotor annulus. Indeed, the degree of casing static pressure disruption varies with the amount of throttling (comparing the rotor casing static pressure distributions for the three test points analyzed, all at different throttle settings), which has some bearing on the location and strength of the rotor blade-to-blade passage shock at the rotor tip.

Convergence of the final thru-blade solutions were based on satisfying the following criteria:

- (1) The specified flow was passed through the stage.
- (2) Experimental casing static pressure values, linearly interpolated to determine the values at the computing station casing axial locations, were matched at the specified stations.
- (3) The computed distribution of the casing static pressure smoothly represented the measured casing static pressure distribution.
- (4) Reasonable axial distributions of axial distributions of blockage, work (total enthalpy for the rotor), and deviation were achieved.

The fourth criteria was achieved by analytically specifying a smooth distribution of work (total enthalpy) through (from leading to trailing edge) and across (from hub to tip) the rotor. The axial distribution of work along a streamline was specified as a combination of a quarter-sine wave function and a linear function (a coefficient value of 1.0 defines the function to be all quarter-sine wave and a value of 0.0 defines the function to be all linear). The coefficient was specified at three different exit radii; near the hub, mid, and tip streamlines. The program smoothly varies the coefficient in the radial direction between the specified values. The iteration began with a specified work distribution similar to the design intent; convergence was accomplished when reasonable axial distributions of deviation along the hub, mid, and tip streamlines were achieved.

SECTION V

RESULTS

OVER-ALL PERFORMANCE

The mass-averaged performance of the rotor and of the complete compressor stage is tabulated in Table 6 and plotted in Figures 6 and 7. The performance indicates that the design goals were nearly achieved. At 100% design corrected speed and near the operating design point, measured corrected flow was approximately 1% below design (design flow was 61.36 lb./sec.), stage efficiency and pressure were near their design values. The compressor was throttled to stall at each corrected speed shown on the map. Seven test points were selected which best represented the full characteristic of each speed line, from full open throttle to near stall (the last test point plotted on each speed line represents the highest throttle setting that could be maintained without initiating compressor stall).

2. BLADE-ELEMENT PERFORMANCE (ACROSS-BLADE)

The radial distributions of incidence angle, relative (absolute for the stator) inlet Mach number, loss coefficient, diffusion factor, and deviation angle for both rotor and stator and the axial distributions of measured and computed static pressures for each test point are presented in Figures 8 through 143, for each data point shown on the compressor map and listed in Table 6. The plots are grouped together according to speed and presented in

order of decreasing speed; the rotor/stator parameters for all test points on the same speed line are plotted together.

3. DESIGN SPEED DETAILED THRU-BLADE RESULTS

2

Three test points at 100% corrected speed closest to the design (operating) point, maximum efficiency point, and maximum pressure ratio point were selected for detailed thru-blade analysis. The test point identification numbers for these points are 870901001, 870901004, and 870901005 respectively. The radial distributions of incidence angle, relative (absolute for the stator) inlet Mach number, loss coefficient, diffusion factor, and deviation angle for both rotor and stator, the axial distributions of wake/boundary-layer blockage, the thru-blade distributions of deviation and work for the rotor, and the axial distributions of measured and computed static pressure for all three test points are presented in Figures 144 through 165. The rotor/stator inlet and exit parameters for all three test points are plotted together for easier comparison. Printed outputs of the thru-blade analysis for the three test points analyzed are also presented; test point 870901001 output is presented in Appendix B, test point 870901004 in Appendix C, and test point 870901005 in Appendix D.

4. DESIGN POINT COMPARISON RESULTS

To obtain a comparison between design and experimental data, results for the thru-blade analysis of the test point closest to the design (operating) point (test point identification number

870901001) are compared with the design prediction values and are shown in Figures 166 through 169. Shown are the distributions of rotor incidence angle (Figure 166), rotor inlet relative Mach number (Figure 167), rotor exit deviation angle (Figure 168), and stator incidence angle (Figure 169).

5. BASELINE COMPARISON

To obtain a comparison between the PBS rotor configuration number 1 and the baseline performances, results for the thru-blade analyses of the test points at 100% corrected design speeds and maximum efficiency are compared in Figures 170 through 179. Shown are comparison plots of incidence angle, inlet relative (absolute for stator) Mach number, loss coefficient, diffusion factor, and deviation for both rotor and stator. For the PBS rotor configuration number 1, test point identification number 870901004 results are shown. For the baseline rotor configuration, the original test results (re-run through the same phase II thru-blade analysis as the PBS configurations) for test point identification number 780222026 (designated HTFC, for "High Thru-Flow Compressor," configuration number 7) are shown.

SECTION VI

CONCLUSIONS

There are obviously many differences between the design predictions and test results and between the baseline test results and PBS configuration number 1 test results. In other technical reports yet to be printed, there will also be many differences indicated between the test results for the other PBS configurations. The intent, however, of this report is to present the results of the investigation for PBS #1 as completely and comprehensively as possible without drawing any specific conclusions about the specific design or the overall study. Future reports will deal with summary comparisons and conclusions as the scientific community has had sufficient time to digest the wealth of information contained herein and to pass their thoughts and concerns on to the authors.

TABLE 1

PBS #1 - INSTRUMENTATION DETAILS

INST. CHAN.	THERMO. GROUP	ZOC	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	INSTRUMENTATION MEASUREMENT LOCATION
1	1					Exit TT on R1 at 5.996
2	ī			_	-	Exit TT on R1 at 6.387
3	ī	-	_	_	-	Exit TT on R1 at 6.755
4	1.		_	_	-	Exit TT on R1 at 7.104
5	1		_	-		Exit TT on R1 at 7.437
6	1	-	-		-	Exit TT on R1 at 7.756
7	1		-		-	Exit TT on R1 at 8.062
8	1	_	-	-	-	Exit TT on R1 at 8.356
9	1	-	-	-	-	Exit TT on R15 at 5.996
10	1	-	-	-	_	Exit TT on R15 at 6.387 Exit TT on R15 at 6.755
11	1 1	_			_	Exit TT on R15 at 6.755 Exit TT on R15 at 7.104
12 13	1			-	-	Exit II on R15 at 7.104 Exit TT on R15 at 7.437
14	1		-		_	Exit II on RIS at 7.437 Exit IT on RIS at 7.756
19	1	_	_	_	_	Exit TT on R15 at 8.062
20	1	_	_		_	Exit TT on R15 at 8.356
21	1	_	-		_	32 degree ref. temp.
22	i	_	_	_	_	313 degree ref. temp.
23	ī	•••	_	_		450 degree ref. temp.
26	2	_	_	-	_	Exit TT on R5 at 5.996
27	2	_				Exit TT on R5 at 6.387
28	$\overline{2}$	_		_	-	Exit TT on R5 at 6.755
29	2	•••	_	-	-	Exit TT on R5 at 7.104
30	2	_	-	-	_	Exit TT on R5 at 7.437
31	2		_	-	-	Exit TT on R5 at 7.756
32	2		_	_	***	Exit TT on R5 at 8.062
33	2		•••	~	-	Exit TT on R5 at 8.356
34	2		-	-	-	Exit TT on R13 at 5.996
35	2		-	_	-	Exit TT on R13 at 6.387
36	2		_	-	-	Exit TT on R13 at 6.755
37	2	-	-	-	_	Exit TT on R13 at 7.104
38	2	_	-	-	_	Exit TT on R13 at 7.437 Exit TT on R13 at 7.756
39	2 2	~	-	_	-	Exit TT on R13 at 7.756 Exit TT on R13 at 8.062
40 41	2	-	_	_	_	Exit TT on R13 at 8.356
42	2	_	_	_	_	Exit TT on R3 at 5.996
43		_	_	_		Exit TT on R3 at 6.387
43	2	_	_	_	-	Exit TT on R3 at 6.755
45	2	_		_	_	Exit TT on R3 at 7.104
46	2 2 2 2	-	-		_	Exit TT on R3 at 7.437
47	2			_		Exit TT on R3 at 7.756
48	2		_	_	***	Exit TT on R3 at 8.062
49	2			-	_	Exit TT on R3 at 8.356
51	2	_	-	_	_	Exit TT on R7 at 5.996

TABLE 1 Continued

PBS #1 - INSTRUMENTATION DETAILS

INST. CHAN.	THERMO. GROUP	ZOC	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	
52	2					Exit TT on R7 at 6.387
53	2	-		_		Exit TT on R7 at 6.755
54	2		-	_	_	Exit TT on R7 at 7.104
55	2	-		_		Exit TT on R7 at 7.437
56	2	_	_		-	Exit TT on R7 at 7.756
57	2	-		_	_	Exit TT on R7 at 8.062
58	2	_		_	-	Exit TT on R7 at 8.356
59	2		-	-	-	Exit TT on R11 at 5.996
60	2	-	-	_	_	Exit TT on R11 at 6.387
61	2	-	_		_	Exit TT on R11 at 6.755
62	2	-		_		Exit TT on R11 at 7.104
63	2	-	_	_	_	Exit TT on R11 at 7.437
64	2	-	.,	_	-	Exit TT on R11 at 7.756
65	2	-	_	***	_	Exit TT on R11 at 8.356
66	2	_	_			Exit TT on R11 at 8.062
67	2	-	-	-	_	Exit TT on R9 at 5.996
68	2	-	_	-		Exit TT on R9 at 6.387
69	2	-	-	_	-	Exit TT on R9 at 6.755
70	2		-	-	_	Exit TT on R9 at 7.104
71	2	-	_	-		Exit TT on R9 at 7.437
72	2	-	-			Exit TT on R9 at 7.756
73	2	-	-	-	-	Exit TT on R9 at 8.062
74	2	•••	_		-	Exit TT on R9 at 8.356
76	2	-	-	_		Exit TT on R17 at 5.996
77	2	-	-	-	_	Exit TT on R17 at 6.387
78	2	-	-	_	_	Exit TT on R17 at 6.755
79	2	-	_	-	-	Exit TT on R17 at 7.104
80	2	-	-	-	-	Exit TT on R17 at 7.437
81	2		-	-	_	Exit TT on R17 at 7.756
82	2	-	-	_	-	Exit TT on R17 at 8.062
83	2	-	-			Exit TT on R17 at 8.356
84	2	-	-		-	Stator LE TT at 8.125
85	2		-	-		Exit TT on R19 at 8.062
86	2	-		-	-	Exit TT on R19 at 7.756
87	2	-		-	_	Exit TT on R19 at 7.437
88	2	-	_	_	_	Exit TT on R19 at 7.104
89	2	-	-	-	~	Exit TT on R19 at 6.755
90	2			-	-	Exit TT on R19 at 6.387
91	2	-		_		Exit TT on R19 at 5.996
92	2		_		••	Exit TT on R19 at 8.356
93	2			-		Stator LE TT at 6.250
94	2		-	-	-	Stator LE TT at 7.750
95	2	-	-	-		Stator LE TT at 5.875
96	2	-	-	-	-	Stator LE TT at 7.375

TABLE 1 Continued

PBS #1 - INSTRUMENTATION DETAILS

INST.	THERMO. GROUP	ZOC	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	
97	2	-	-		-	Stator LE TT at 7.000
98	2	_		-	-	Stator LE TT at 5.125
99						Rotor RPM
100	2	-	-	-	-	Stator LE TT at 6.625
101	2		_	-	-	Stator LE TT at 5.500
102	2		-	-		32 degree ref. temp.
103	2	-	-	-	-	313 degree ref. temp.
104	2 2 2 2 3 3 3	-	-	-	-	450 degree ref. temp.
105	3	-		-		Plenum temperature #1
106	3	-	-	-	-	Plenum temperature #2
108	3	-	-			Plenum temperature #3
109	3	-	-	_	-	Plenum temperature #4
110	3	-	-	-	-	Plenum temperature #5
111	3	-	-	_	-	Plenum temperature #6
112	3	-	_	-	-	Plenum temperature #7
113	3		-	-	-	Plenum temperature #8 Plenum temperature #9
117 118	3 3 3 3	_	-	-		Dewcel temperature #10
121		_	_	_	_	ZOC module #1 temp.
121	3	_	-	_		ZOC module #1 temp.
123	3 3 3 3 3		-	-	-	ZOC module #3 temp.
124	3		-	•••	_	ZOC module #4 temp.
125	3	_			_	ZOC module #5 temp.
126	3	_		_		ZOC module #6 temp.
127	3		-	-	_	ZOC module #7 temp.
128	3		-	_		ZOC module #8 temp.
129	3		-	-		ZOC module #9 temp.
130	3	-	-	_	-	ZOC module #10 temp.
151		1A1	311	471	631	Exit PT on R2 at 5.996
152	_	2A1	312	472	632	OD PS at -0.900 (#1)
153	_	3A1	313	473	633	Exit PT on R6 at 5.996
154		4A1	314	474	634	Exit PT on R10 at 5.996
155	-	5A1	315	475	635	Exit PT on R14 at 5.996
156	-	6A1	316	476	636	Exit PT on R18 at 5.996
157		7A1	317	477	637	ID PS at -5.125 (#1)
158	-	8A1	318	478	638	OD PS at -8.571
159	_	9A1	319	479	639	Plenum pressure #1
160	-	10A1	320	480	640	Venturi throat #5
161	-	1A2	321 322	481 482	641 642	Exit PT on R2 at 6.387 OD PS at -9.000 (#2)
162	-	2A2 3A2	322 323	482 483	643	Exit PT on R6 at 6.387
163 164	_	3A2 4A2	323	484	644	Exit PT on R10 at 6.387
165	_	5A2	324 325	485	645	Exit PT on R14 at 6.387
166		6A2	325	486	646	Exit PT on R18 at 6.387
100	-	UAZ	320	400	040	DATE ET ON ALO GE 0.307

TABLE 1 Continued

PBS #1 - INSTRUMENTATION DETAILS

INST. CHAN.	THERMO. GROUP	ZOC	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	INSTRUMENTATION MEASUREMENT LOCATION
167	_	7A2	327	487	647	ID PS at -5.125 (#2)
168	-	8A2	328	488	648	OD PS at -8.318
169	-		329	489	649	Venturi throat (#1)
170			330	490		Venturi throat (#6)
171	•		331	491	651	
172	_		332	492	652	OD PS at -0.900 (#3)
173	_		333	493		
174			334	494		Exit PT on R10 at 6.755
175	_	5A3	335	495	655	
176	_	6A3	336	496	656	Exit PT on R18 at 6.755
177		7A3	337	497	657	ID PS at -5.125 (#3)
178	_	8A3	338	498	658	OD PS at -8.065
179	-	9A3	339	499	659	Venturi inlet (#3)
180	-		340	500	660	Venturi throat (#7)
181	_		341	501	661	Exit PT on R2 at 7.104
182	-		342	502	662	OD PS at -0.900 (#4)
183	_		343	503	663	Exit PT on R6 at 7.104
184	-		344	504	664	Exit PT on R10 at 7.104
185		5A4	345	505	665	Exit PT on R14 at 7.104
186		6A4	346	506	666	
187	_	7A4	347	507	667	ID PS at -5.125 (#4)
188	_	8A4		508	668	OD PS at -7.811
189	_	9A4	349	509	669	Venturi inlet (#1)
190	_	10A4		510	670	Venturi throat (#8)
191	_	1A5	351	511	671	Exit PT on R2 at 7.437
192	_	2A5	352	512	672	OD PS at -1.650 (#1)
193	-	3A5	353	513	673	Exit PT on R6 at 7.437
194	_	4A5	354		674	Exit PT on R10 at 7.437
195			355		675	Exit PT on R14 at 7.437
196	-	6A5	356			Exit PT on R18 at 7.437
197	-	7 A 5	357		677	
198	-	8A5	358	518	678	OD PS at -7.558
199	_	9A5	359		679	
200	-	10A5	360	520	680	
201	-	1A6	361	521	681	Exit PT on R2 at 7.756
202			362			
203	_	3A6	363	523	683	Exit PT on R6 at 7.756
204	_	4A6	364	524	684	Exit PT on R10 at 7.756
205	-	5A6	365	525	685	Exit PT on R14 at 7.756
206		6A6	366	526	686	Exit PT on R18 at 7.756
207	-	7A6	367	527	687	an na 1 m aa 1
208	-	8A6	368	528	688	OD PS at -7.304
209	-	9A6	369	529	689	Atmos. pressure (#1)
210		10A6	370	530	690	Venturi throat (#10)

TABLE 1 Continued

PBS #1 - INSTRUMENTATION DETAILS

INST. CHAN.	THERMO. GROUP	ZOC ID.	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	INSTRUMENTATION MEASUREMENT LOCATION
211	-	1 2 7	371	531	601	Exit PT on R2 at 8.062
212		2A7	372	532 533 534 535 536	692	OD PS at -1.650 (#3)
213	-	3A7	373	533	693	Exit PT on R6 at 8.062
214	-	4A7	374	534	694	Exit PT on R10 at 8.062
215	_	5 A 7	375	535	695	Exit PT on R14 at 8.062
216		6A7	376	536	696	Exit PT on R18 at 8.062
		/A./	311	53/	097	
218	_		378			OD PS at -7.051
219	- - - -	9A7	379	539	699	Venturi throat (#3)
220		10A7	380	540	700	Venturi throat (#11)
221		1A8	381	541	701	Exit PT on R2 at 8.356
222	-	2A8	382	541 542 543 544	702	OD PS at -1.650 (#4)
223	-	3A8	383	543	703	Exit PT on R6 at 8.356
224 225	-	4A8	384 385	544 545	704	Exit PT on R10 at 8.356
225	_	5A8 6A8	386	545 546	705	Exit PT on R14 at 8.356
227	-	7A8	387	547	706 707	Exit PT on R18 at 8.356
228	-		388			OD PS at -6.798
229	_			549		Atmos. pressure (#4)
230	_			550		Venturi throat (#12)
231	- - - -	1B1	391	551		Exit PT on R20 at 5.996
232		2B1	392	552	712	
233	-	3B1	393	553	713	Exit PT on R4 at 5.996
234	_	4B1	394	554	714	Exit PT on R8 at 5.996
235	-	5B1	395	555	715	Exit PT on R12 at 5.996
236	-	6B1	396	556	716	Exit PT on R16 at 5.996
237	-	7B1	393 394 395 396 397	554 555 556 557	717	ID PS at -0.900 (#1)
238	-	8B1	398	558	718	OD PS at -6.544
239	-	9B1	399	559	719	
240	-	10B1	400	560	720	Atmos. pressure (#7)
241	- - -	1B2	401	561	721	Exit PT on R20 at 6.387
242		2B2	402	562	722	Stator LE PT at 7.750
243 244	_	3BZ	403	563 564 565	723	Exit PT on R4 at 6.387
245	<u>-</u>	4 <i>D4</i> 5 D 2	404	504 E E E	725	Exit PT on R8 at 6.387
245	_	502 602	405	565	725	Exit PT on R12 at 6.387 Exit PT on R16 at 6.387
247	_	7B2	407	567	727	ID PS at -0.900 (#2)
248	_	8B2	408	568	728	OD PS at -6.291
249	_	9B2	409	569	729	Venturi throat (#2)
250	-	10B2	410	570	730	Atmos. pressure (#8)
251	_	1B3	411	571	731	Exit PT on R20 at 6.755
252	_	2B3	412	572	732	Stator LE PT at 7.375
253	-	3B3	413	573	733	Exit PT on R4 at 6.755
254	-	4B3	414	574	734	Exit PT on R8 at 6.755

TABLE 1 Continued

PBS #1 - INSTRUMENTATION DETAILS

INST. CHAN.	THERMO. GROUP	ZOC	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	
255	_	5B3	415	575	735	Exit PT on R12 at 6.755
256	_	6B3	416	576		Exit FT on R16 at 6.755
257	_	7B3	417	577		ID PS at -0.900 (#3)
258	_	8B3	418	578	738	OD PS at -6.037
259	-	9B3	419	579	739	Venturi throat (#4)
260	-	10B3	420	580	740	Atmos. pressure (#9)
261	-	1B4	421	581	741	Exit PT on R20 at 7.104
262	-	2B4	422	582		Stator LE PT at 7.000
263	-	3B4	423			Exit PT on R4 at 7.104
264	_	4B4	424			Exit PT on R8 at 7.104
265	-	5B4	425			
266	-	6B4	426			
267		7B4	427			ID PS at -0.900 (#4)
268	•••	8B4	428	588		OD PS at -5.784
269		9B4	429	589	749	Venturi inlet (#2)
270	-	10B4	430	590 501	750 751	Atmos. pressure (#10)
271 272	-	1B5	431 432	591 592	751 752	Exit PT on R20 at 7.437
272		2B5 3B5	432		752 753	Stator LE PT at 6.625
274			433		754	Exit PT on R4 at 7.437 Exit PT on R8 at 7.437
275	-		435		755	Exit PT on R12 at 7.437
276			436		756	
277		7B5	437		757	ID PS at -1.650 (#1)
278		8B5	438	598	758	OD PS at -8.400 (#1)
279	-	9B5	439	599	759	Atmos. pressure (#5)
280		10B5	440	600	760	Atmos. pressure (#11)
281	-	1B6	441	601	761	Exit PT on R20 at 7.756
282		2B6	442	602	762	Stator LE PT at 6.250
283		3B6	443	603	763	Exit PT on R4 at 7.756
284	-	4B6	444	604	764	Exit PT on R8 at 7.756
285	~	5B6	445			Exit PT on R12 at 7.756
286		6B6	446			Exit PT on R16 at 7.756
287	-	7B6	447			
288	-			608		OD PS at -8.400 (#2)
289		9B6	449	609	769	
290	~	10B6		610	770	Atmos. pressure (#12)
291	~	1B7	451	611	771	Exit PT on R20 at 8.062
292	_	2B7	452	612	772	Stator LE PT at 5.875
293	-	3B7	453	613	773	Exit PT on R4 at 8.062
294	_	4B7	454	614	774	Exit PT on R8 at 8.062
295	_	5B7	455	615	775	Exit PT on R12 at 8.062
296	-	6B7	456	616	776	Exit PT on R16 at 8.062
297 298		7B7	457	617	777	ID PS at -1.650 (#3)
490	_	8B7	458	618	778	OD PS at -8.400 (#3)

TABLE 1 Continued

PBS #1 - INSTRUMENTATION DETAILS

ING? CHAN.	THERMO. GROUP	ZOC	CAL.1 CHAN.	CAL.2 CHAN.	CAL.3 CHAN.	INSTRUMENTATION MEASUREMENT LOCATION
299	-	9B7	459	619	779	Venturi throat (#4)
300	_	10B7	460	620	780	Atmos. pressure (#13)
301	_	1B8	461	621	781	Exit PT on R20 at 8.356
302	-	2B8	462	622	782	Stator LE PT at 5.500
303	_	3B8	463	623	783	Exit PT on R4 at 8.356
304	-	4B8	464	624	784	Exit PT on R8 at 8.356
305	_	5B8	465	625	785	Exit PT on R12 at 8.356
306	-	6B8	466	626	786	Exit PT on R16 at 8.356
307		7B8	467	627	787	ID PS at -1.650 (#4)
308	-	8B8	468	628	788	OD PS at -8,400 (#4)
309	_	9B8	469	629	789	Venturi throat (#6)
310	_	10B8	470	630	790	Atmos. pressure (#14)

NOTE: The following instrumentation channels were erroneous and interchanged as follows:

ERRONEOUS CHANNEL	REPLACEMENT CHANNEL	TEST POINT NOS. AFFECTED
200	210	870828001-56,870901001-53
209	289	870828001-56,870901001-53
219	169	870828001-56,870901001-53
262	252	870828001-56,870901001-53
276	207	870828001-56,870901001-53
280	290	870828001-56,870901001-53
282	292	870901001-53
286 299	296	870828001-56
306	249 296	870828001-56,870901001-53 870828001-56
300	430	0/0040001-30

TABLE 2

ACROSS-BLADE ANALYSIS COMPUTING STATION GEOMETRY DEFINITION

STATION	1234567890123
ROTOR EXIT	X
STATOR OR IGV EXIT	X
INSIDE STATIONS	
COMPUTE STATION Z,R	xxxx
APPLY AT -VT OPTION	X
APPLY AT -PT OPTION	X
FLOW (OR BLEED)	X
NAME (STATION)	XXXXXXXXXXXX
NO BLADES	x.x
PEAK PRESSURE-PT	X
TOTAL PRESSURE-PT	X
TOTAL PRESSURE-VT	X
TOTAL TEMPERATURE	X
USE AIRFOIL	X.X
USE CASE SEGMENT	x.x
USE HUB SEGMENT	X.X

TABLE 3

ACROSS-BLADE ANALYSIS COMPUTING STATION INPUT DATA DEFINITION

STAT -ION	BLOCKAGE WILL BE OBTAINED FROM	PRESSURE CASE PITCH STATIC STATIC	PITCH BLOCK -AGE	HUB BK OVER PITCH	PITCH ADD. DEV.
1	INPUT		0.000	1.000	
2	INPUT		0.000	1.000	
3	INPUT		0.000	1.000	
	INPUT		0.000	1.000	
4 5	INPUT		0.000	1.000	
6	CASE STATIC	10.471		1.000	
7	CASE STATIC	23.099		1.000	
8 9	INTERPOLATION			1.000	
9	CASE STATIC	24.222		1.000	
10	CASE STATIC	24.402		1.000	
11	CASE STATIC	24.160		1.000	
12	CASE STATIC	23.917		1.000	
13	CASE STATIC	23.674		1.000	

TABLE 4
THRU-BLADE ANALYSIS COMPUTING STATION GEOMETRY DEFINITION

STATION	12345678901234567
ROTOR EXIT	xx
STATOR OR IGV EXIT	xx
INSIDE STATIONS	xxxx
COMPUTE STATION Z,R	xxxxxxxx
APPLY AT -VT OPTION	X
APPLY AT -PT OPTION	X
FLOW (OR BLEED)	
NAME (STATION)	XXXXXXXXXXXX
NO BLADES	x.x.x
PEAK PRESSURE-PT	
TOTAL PRESSURE-PT	X
TOTAL PRESSURE-VT	X
TOTAL TEMPERATURE	
USE AIRFOIL	
USE CASE SEGMENT	
USE HUB SEGMENT	x.x

TABLE 5

THRU-BLADE ANALYSIS COMPUTING STATION INPUT DATA DEFINITION

STAT -ION	BLOCKAGE WILL BE OBTAINED FROM	PRESSURE CASE PITCH STATIC STATIC		HUB BK OVER PITCH	PITCH ADD. DEV.
1	INPUT		0.000	1.000	
2	INPUT		0.000	1.000	
3	INPUT		0.000	1.000	
4	INPUT			1.000	
4 5	INPUT		0.000	1.000	
6	CASE STATIC	10.471		1.000	
7	CASE STATIC	14.747		1.000	
8	CASE STATIC	17.135		1.000	
8 9	INTERPOLATION			1.000	
10	INTERPOLATION			1.000	
11	CASE STATIC	23.099		1.000	
12	INTERPOLATION			1.000	
13	CASE STATIC	24.222		1.000	
14	CASE STATIC	24.402		1.000	
15	CASE STATIC	24.160		1.000	
16	CASE STATIC	23.917		1.000	
17	CASE STATIC	23.674		1.000	

TABLE 6

MASS-AVERAGED PBS #1 ROTOR AND STAGE PERFORMANCE

			ROTOR		STAGE	
TEST ID #	% SPD	FLOW (LB/SEC)	PRES RAT	EFFEN	PRES RAT	EFFEN
870828002	100	60.91	1.951	89.30	1.883	84.20
870901001	100	60.78	2.008	89.50	1.948	85.18
870901003	11	60.45	2.067	91.00	1.995	86.12
870901004	11	60.07	2.103	91.80	2.022	86.47
870901005	11	59.52	2.144	92.30	2.048	86.18
870901006	97	58.05	2.153	90.40	2.044	83.68
870901007	tt	56.79	2.140	89.00	2.032	82.26
870828008	95	59.42	1.851	91.10	1.801	86.68
870828011	11	59.33	1.887	91.80	1.836	87.52
870901010	11	59.02	1.922	92.30	1.872	88.28
870901012	11	58.57	1.962	92.80	1.908	88.60
870901013	11	56.30	1.999	91.60	1.927	86.28
870901014	11	54.84	2.009	90.40	1.926	84.40
870901015	11	53.71	2.011	89.40	1.920	82.90
870828015	90	57.52	1.771	93.20	1.735	89.51
870828017	tt 	57.16	1.793	93.80	1.754	90.02
870828020	11	56.21	1.818	93.70	1.781	90.27
870901020	11	55.39	1.843	93.40	1.800	89.42
870901021	11	54.49	1.852	92.90	1.803	88.43
870901023	11	52.71	1.875	91.60	1.812	86.20
870901024		51.13	1.884	90.40	1.807	83.91
870828022	80	50.23	1.588	94.10	1.562	90.46
870828026 870901025	"	48.80	1.607	93.40	1.578	89.50
870901023	11	47.92 46.58	1.619	92.50	1.585	88.16
870901027	tt	45.58	1.631	91.80 90.80	1.590	86.70 85.11
870901029	11	44.35	1.638 1.640	89.80	1.592 1.587	83.48
870901029	11	43.46	1.633	88.30	1.578	81.71
870828029	70	42.59	1.425	92.70	1.405	88.65
870828032	11	41.67	1.436	92.20	1.413	87.91
870828034	Ħ	40.85	1.442	91.60	1.418	87.18
870828035	11	40.49	1.445	91.20	1.420	86.62
870901033	11	39.47	1.455	90.20	1.426	85.17
870901034	II	38.68	1.458	89.50	1.427	84.16
870901035	II	38.12	1.456	88.80	1.424	83.12
870828036	60	35.85	1.299	92.70	1.284	88.31
870828039	11	35.03	1.306	91.90	1.289	87.43
870828041	11	34.39	1.309	91.40	1.292	86.71
870901037	11	33.49	1.315	90.00	1.295	84.89
870910039	11	32.22	1.318	88.80	1.296	83.10
870901040	11	31.44	1.318	87.60	1.294	81.64
870901041	11	30.92	1.317	87.10	1.292	80.64

TABLE 6 Continued

MASS-AVERAGED PBS #1 ROTOR AND STAGE PERFORMANCE

Control of the state of the sta

			ROTOR		STAGE	
TEST ID #	% SPD	FLOW (LB/SEC)	PRES RAT	EFFEN	PRES RAT	EFFEN
870828043	50	29.39	1.201	92.40	1.191	88.06
870828046	11	28.75	1.205	91.60	1.194	86.99
870828049	11	28.00	1.209	90.60	1.197	85.57
870901044	11	27.22	1.212	89.40	1.198	83.90
870901045	11	26.62	1.214	88.40	1.199	82.55
870901046	11	26.04	1.215	88.20	1.198	81.88
870901047	11	25.29	1.215	86.60	1.196	79.50
870828050	40	23.29	1.124	90.60	1.117	86.09
870828053	11	22.80	1.127	90.30	1.121	85.64
870901048	11	21.86	1.130	89.40	1.122	84.40
870901050	11	21.42	1.132	87.70	1.123	82.28
870901051	11	21.23	1.132	86.40	1.123	80.93
870901052	11	20.83	1.134	86.10	1.124	80.10
870901053	11	20.26	1.135	86.50	1.123	79.51

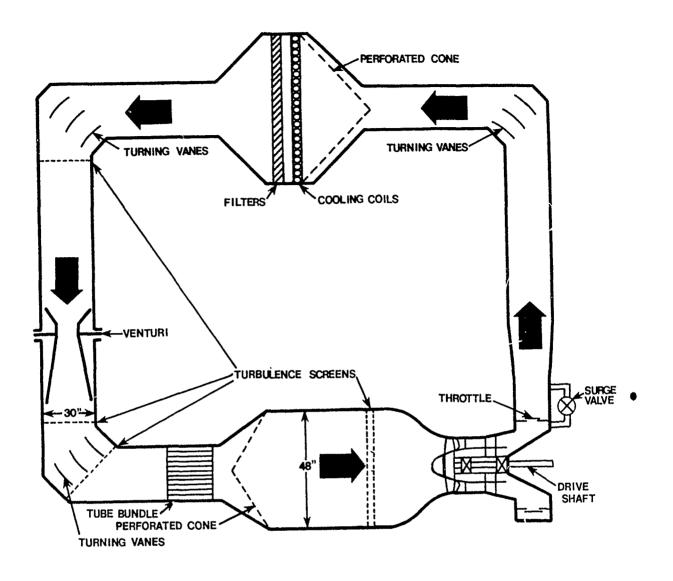


Figure 1. Schematic of 2000 HP Compressor Test Facility

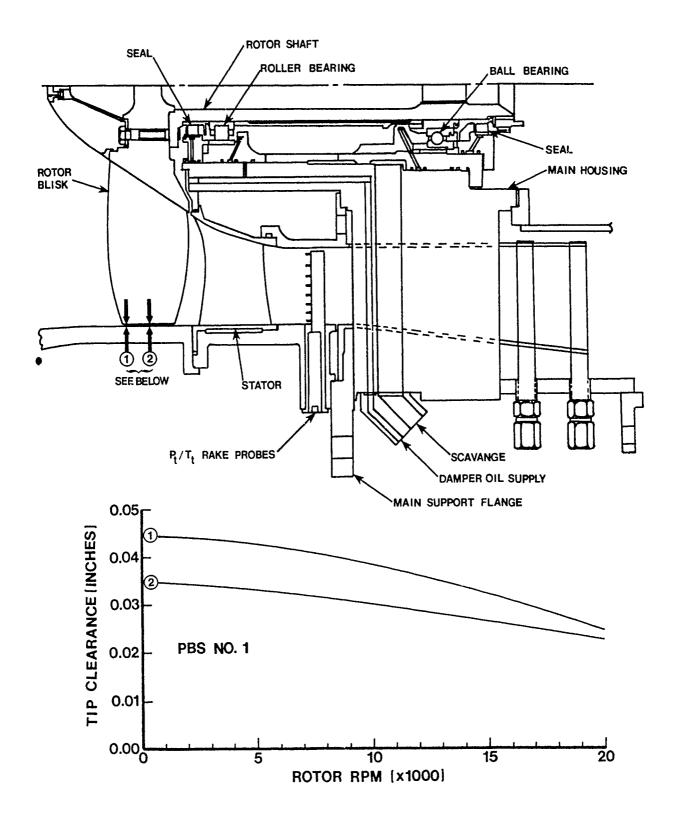


Figure 2. Cross-section of the Research Compressor

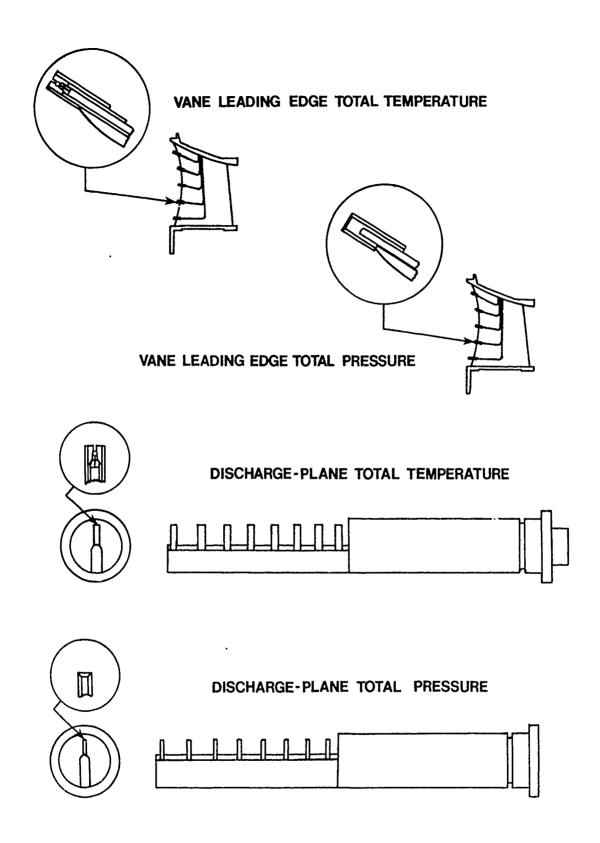


Figure 3. Vane Leading Edge and Discharge-plane Rake Instrumentation

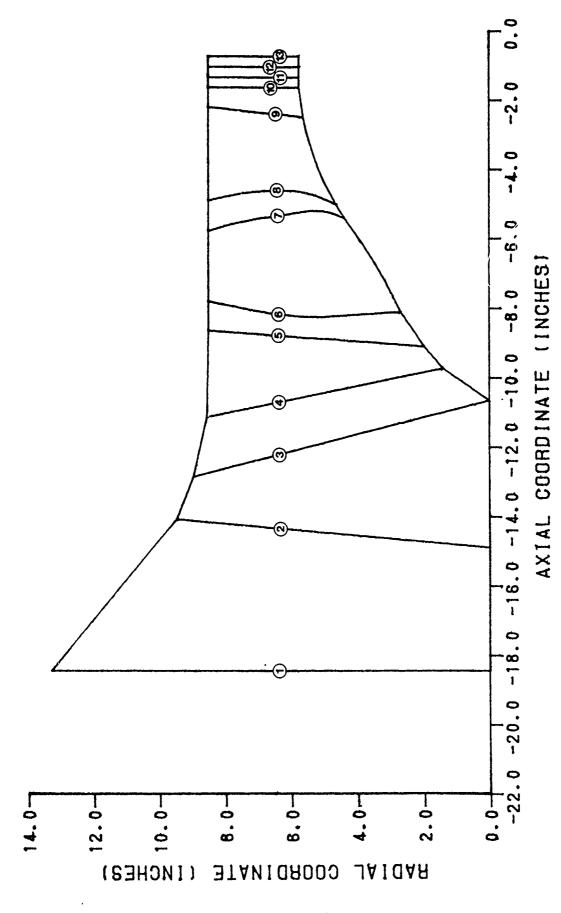


Figure 4. Across-blade Analysis Computing Station Geometry

Thru-blade Analysis Computing Station Geometry Figure 5.

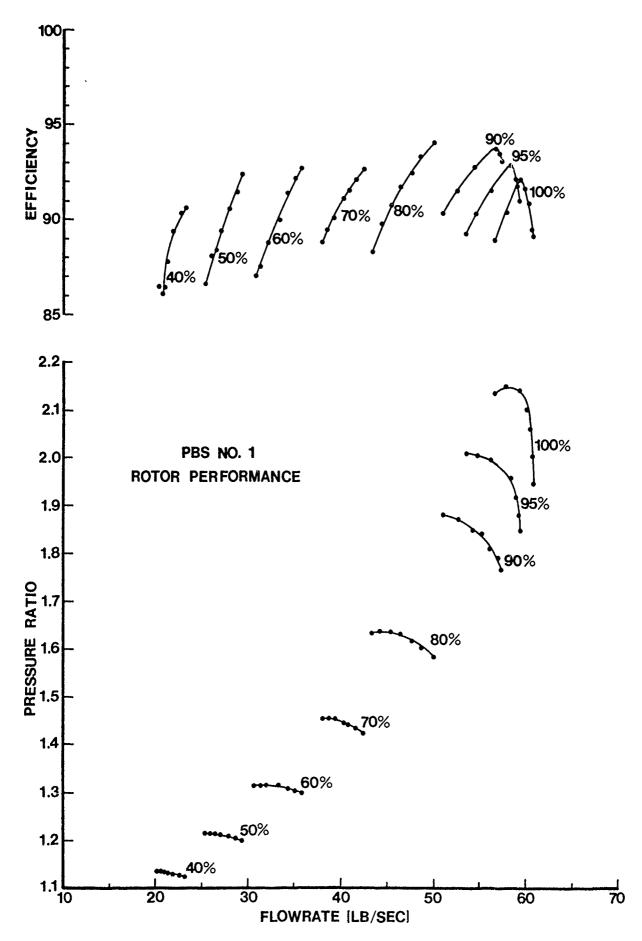


Figure 6. PBS Configuration #1 Rotor Performance

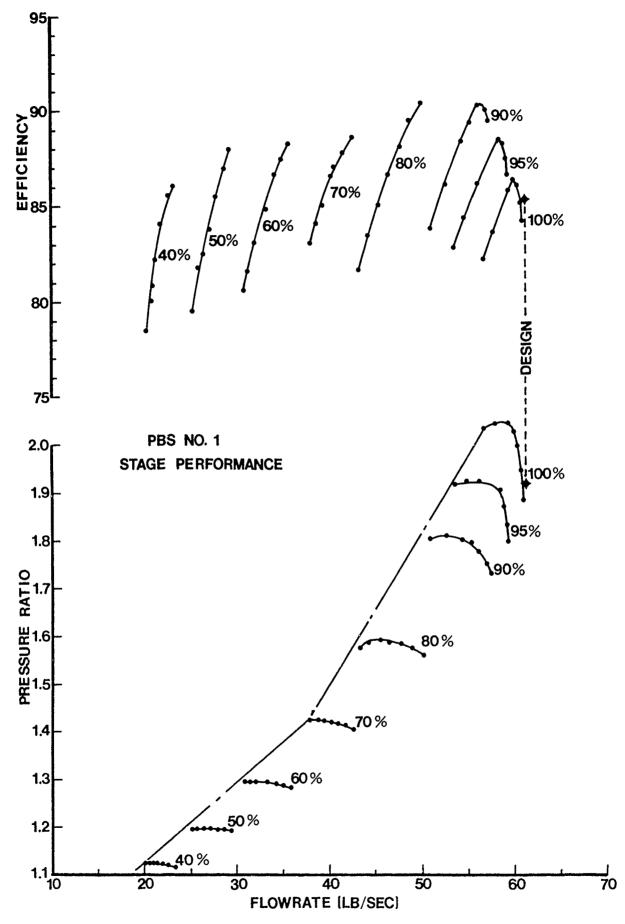


Figure 7. PBS Configuration #1 Stage Performance

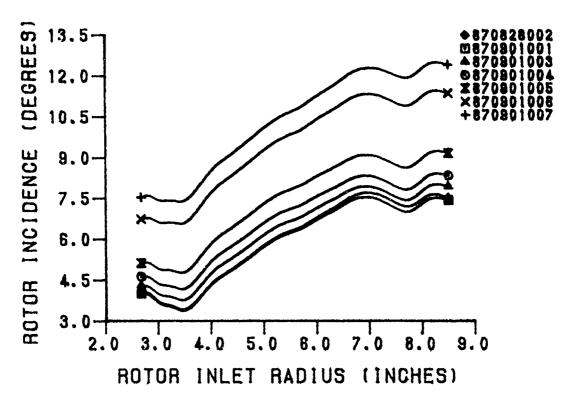


Figure 8. Rotor Incidence Angle (100% N)

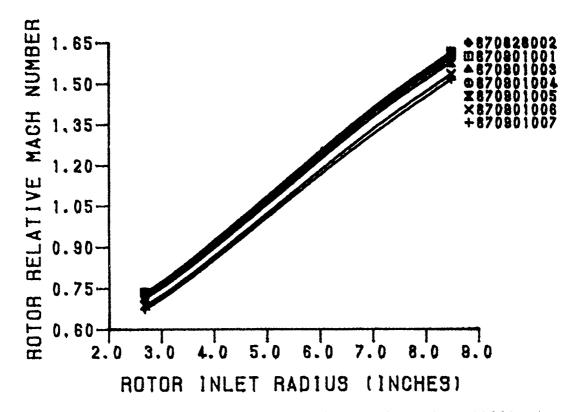


Figure 9. Rotor Relative Inlet Mach Number (100% N)

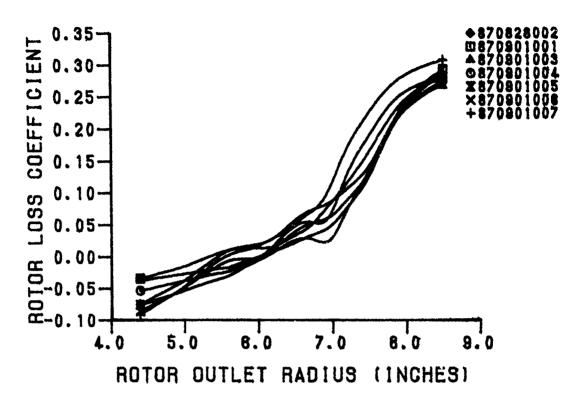


Figure 10. Rotor Loss Coefficient (100% N)

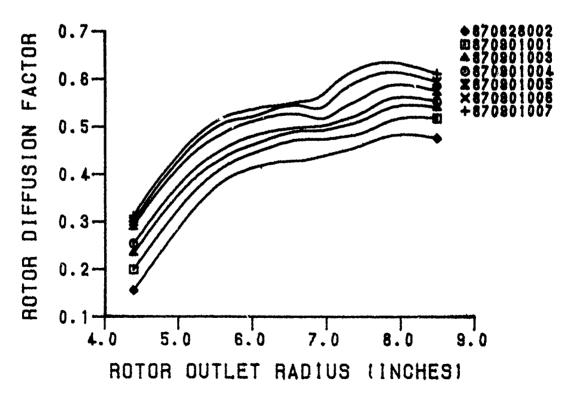


Figure 11. Rotor Diffusion Factor (100% N)

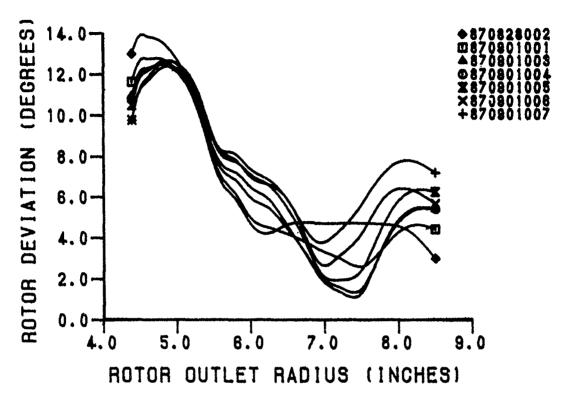


Figure 12. Rotor Deviation Angle (100% N)

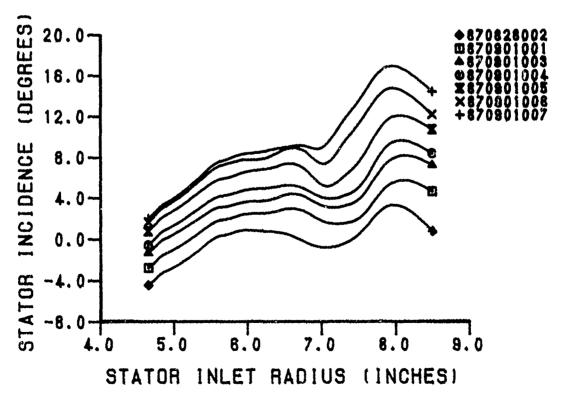


Figure 13. Stator Incidence Angle (100% N)

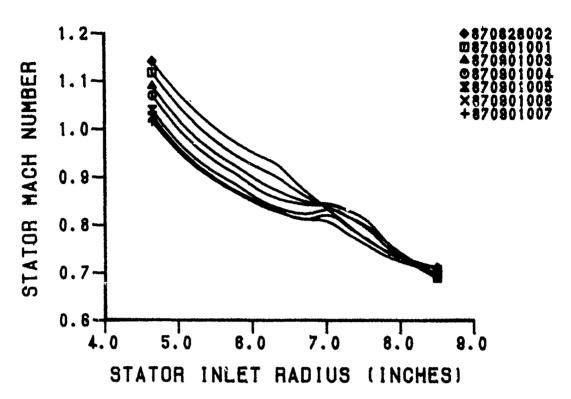


Figure 14. Stator Absolute Inlet Mach Number (100% N)

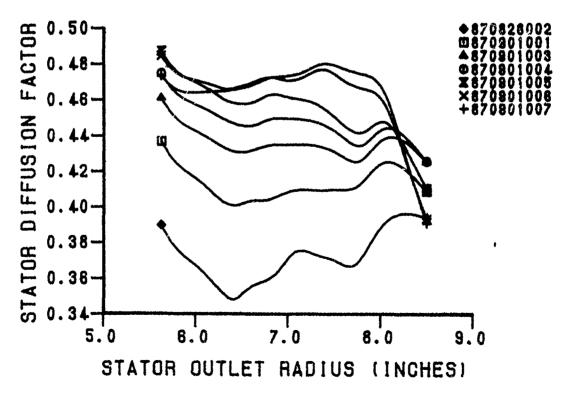


Figure 15. Stator Diffusion Factor (100% N)

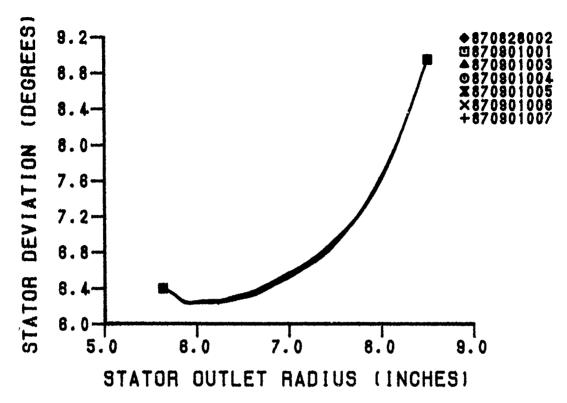


Figure 16. Stator Deviation Angle (100% N)

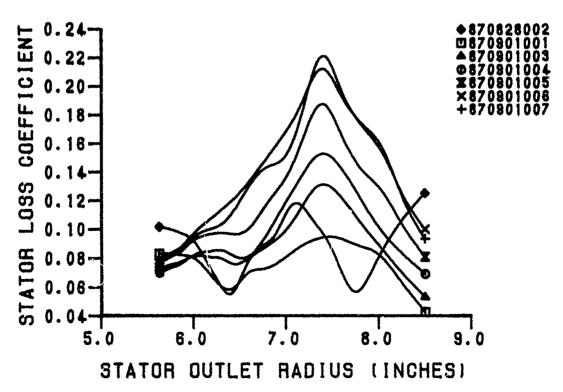


Figure 17. Stator Loss Coefficient (100% N)

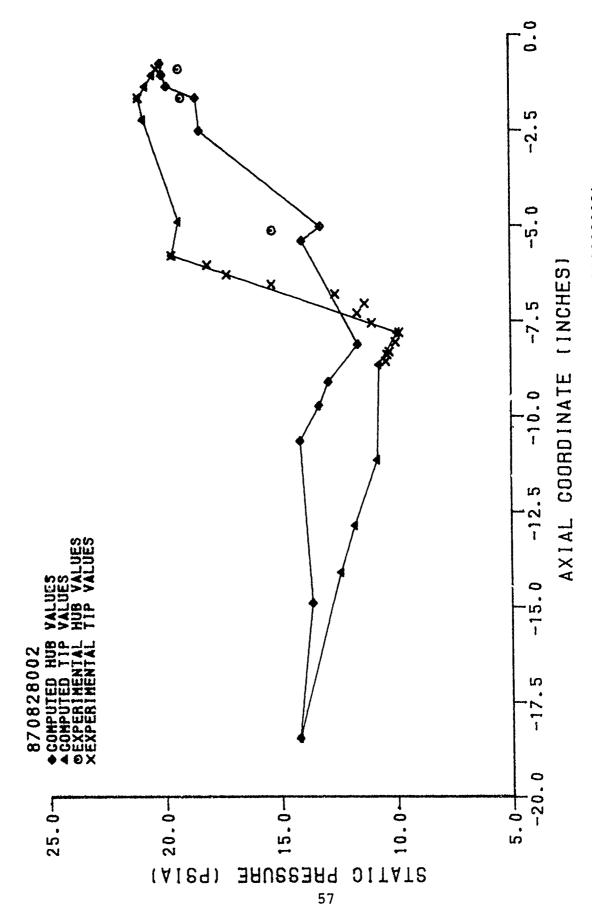
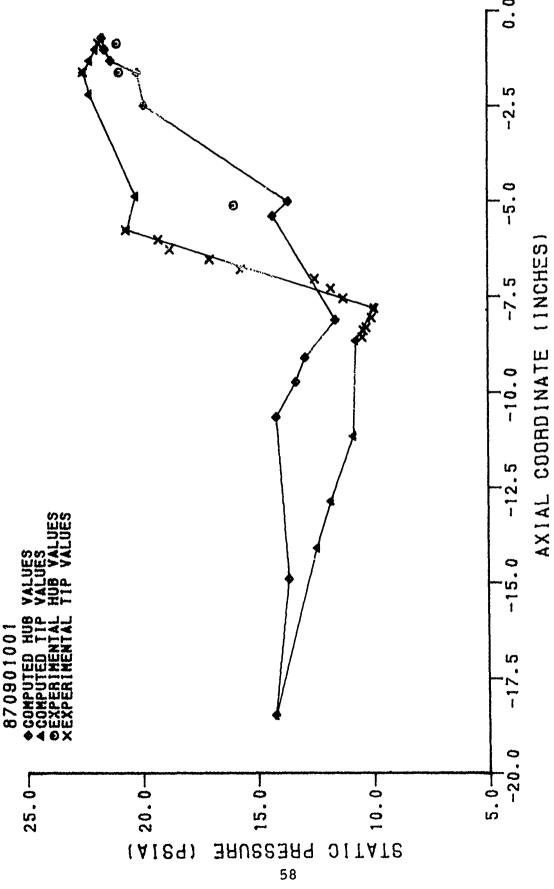


Figure 18. Static Pressure Distribution (870828002)



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Static Pressure Distribution (870901001) Figure 19.

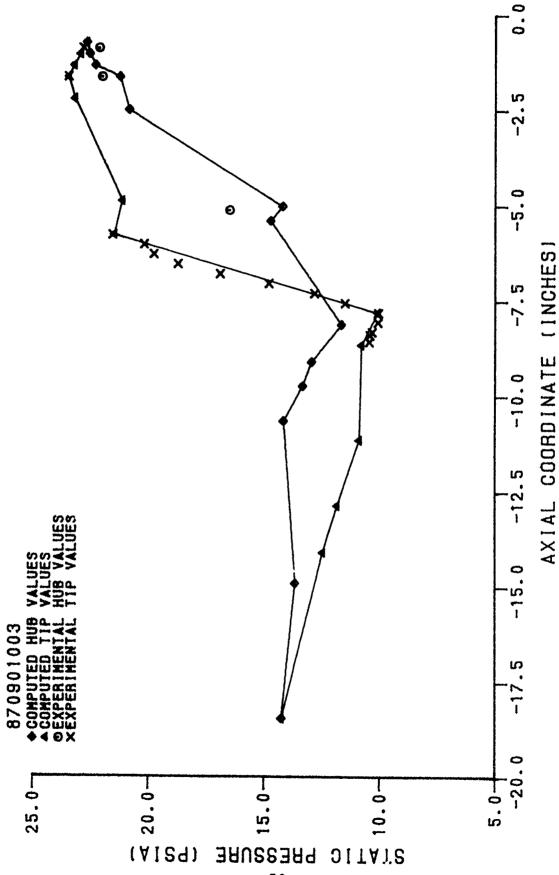
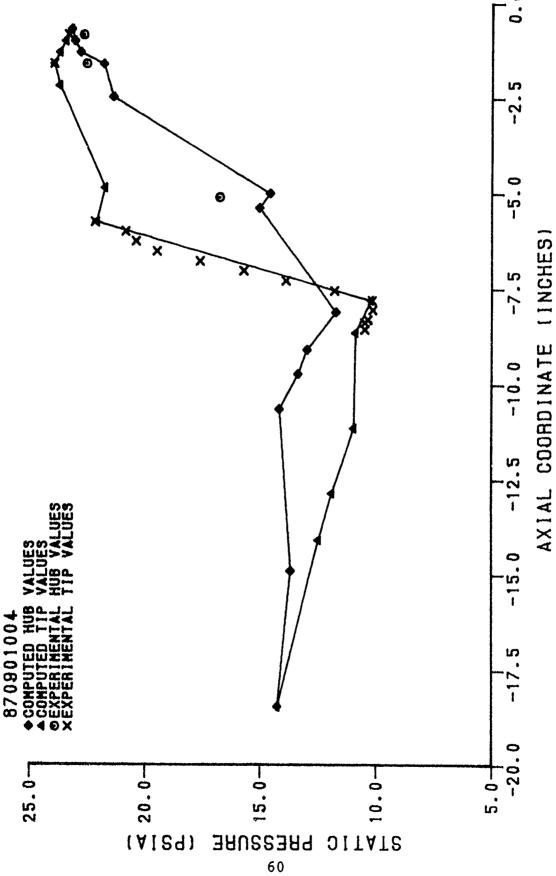


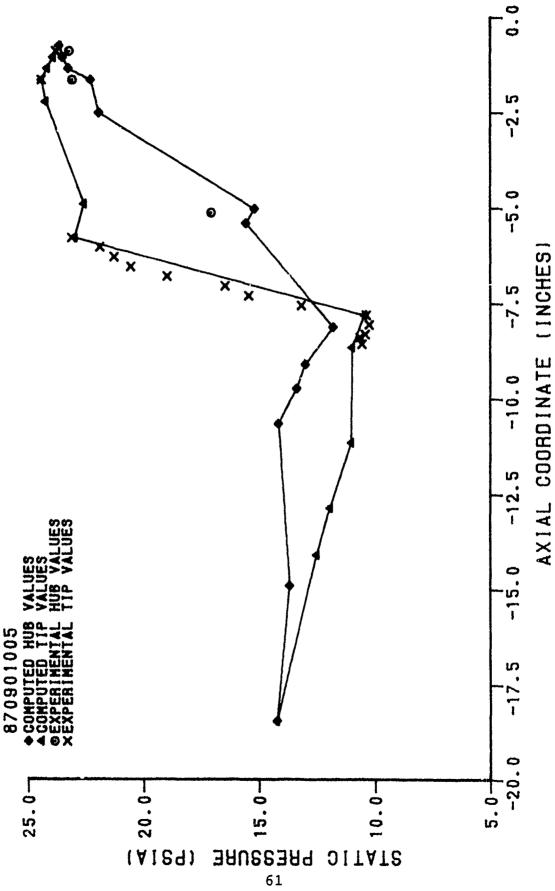
Figure 20. Static Pressure Distribution (870901003)



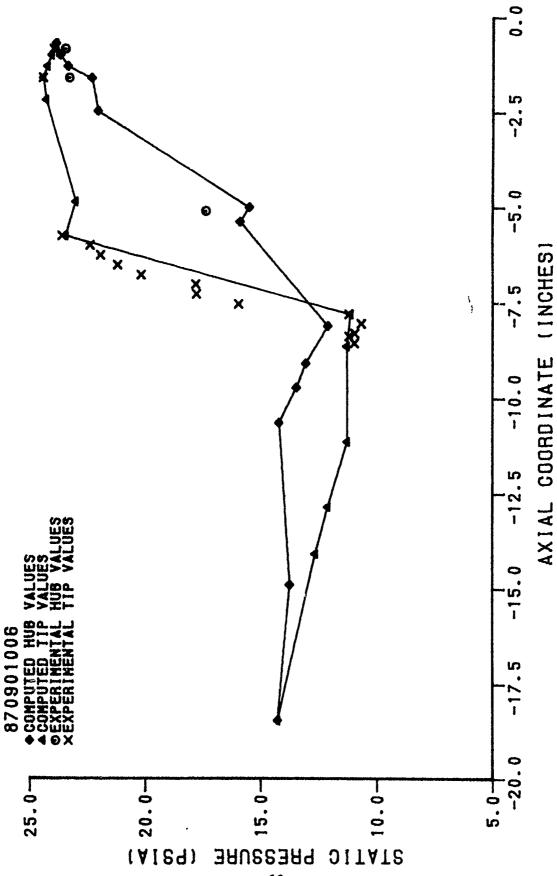
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Static Pressure Distribution (870910004) Figure 21.

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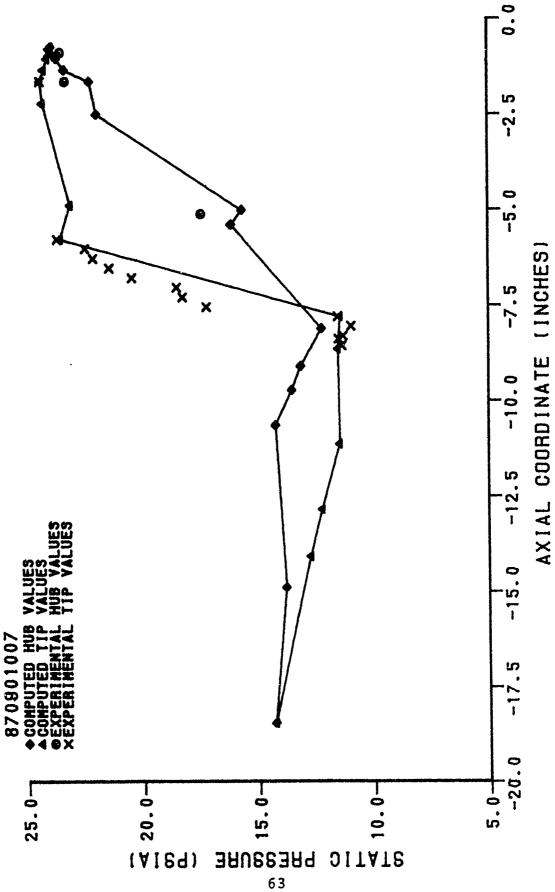
Static Pressure Distribution (870901005) Figure 22.



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Figure 23. Static Pressure Distribution (870901006)



Static Pressure Distribution (870901007) Figure 24.

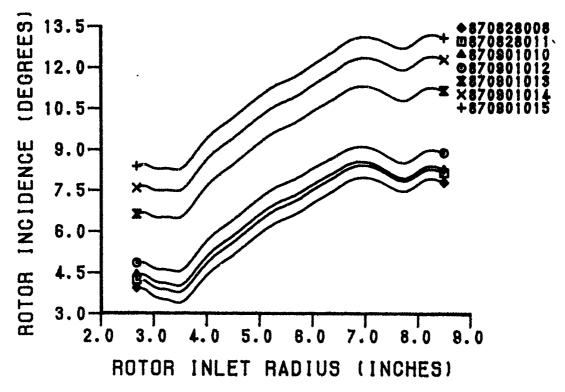


Figure 25. Rotor Incidence Angle (95% N)

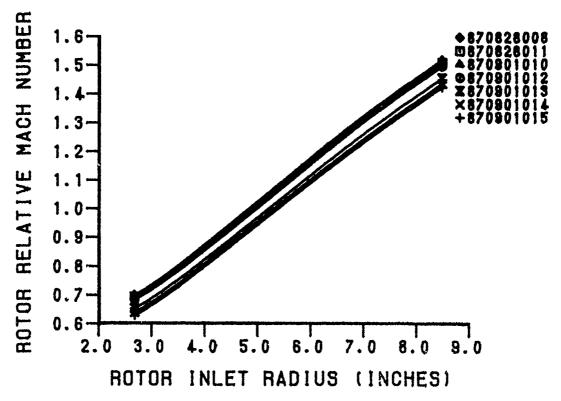


Figure 26. Rotor Relative Inlet Mach Number (95% N)

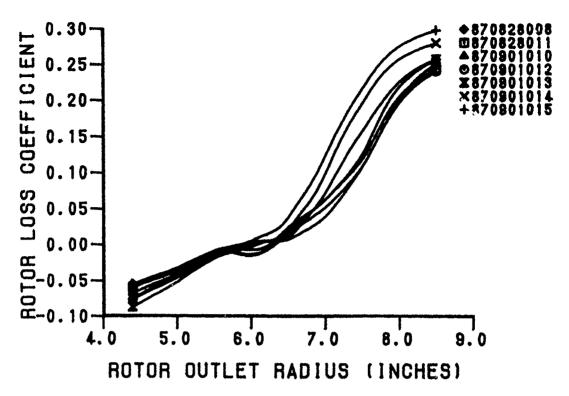


Figure 27. Rotor Loss Coefficient (95% N)

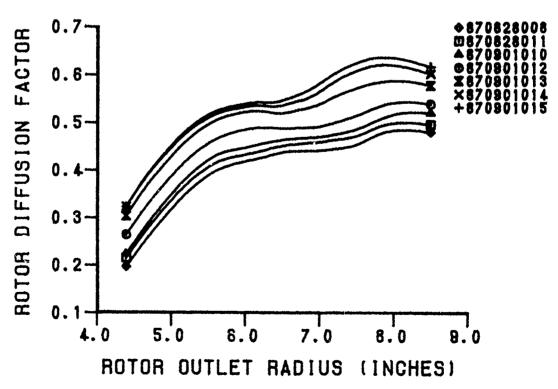


Figure 28. Rotor Diffusion Factor (95% N)

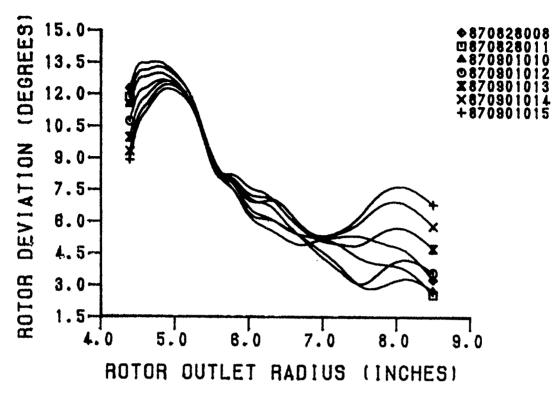


Figure 29. Rotor Deviation Angle (95% N)

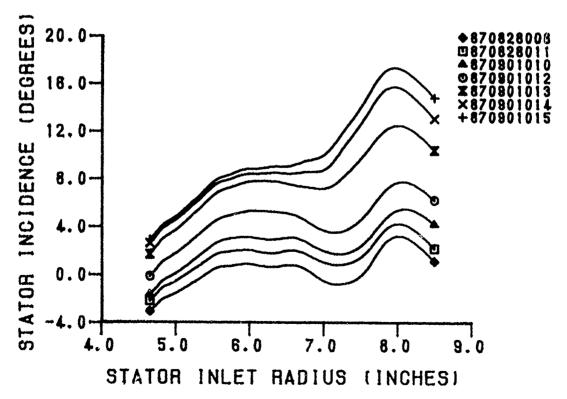


Figure 30. Stator Incidence Angle (95% N)

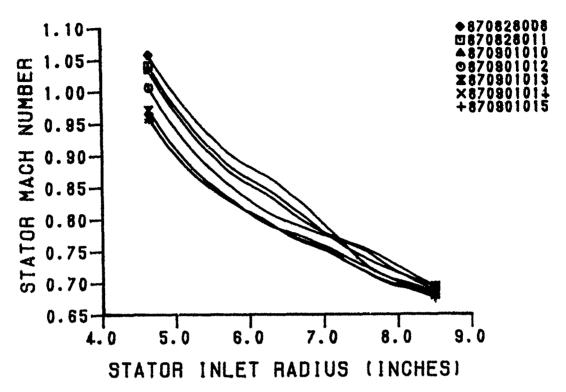


Figure 31. Stator Absolute Inlet Mach Number (95% N)

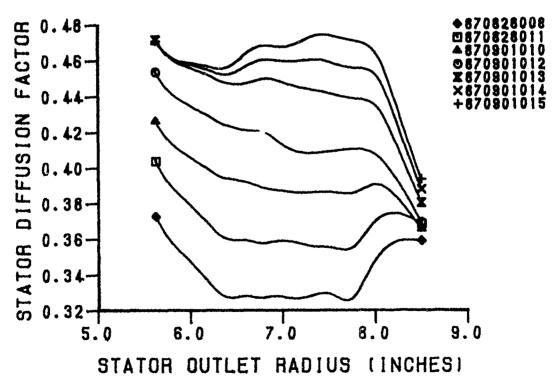


Figure 32. Stator Diffusion Factor (95% N)

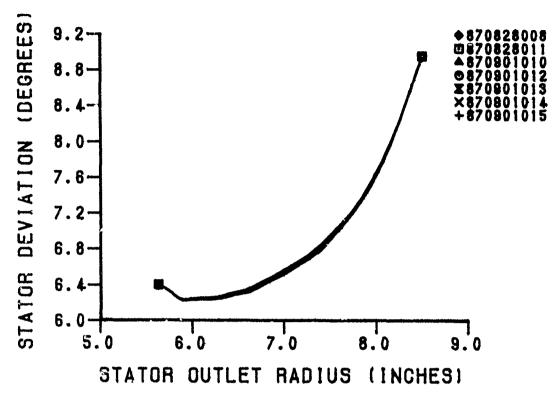


Figure 33. Stator Deviation Angle (95% N)

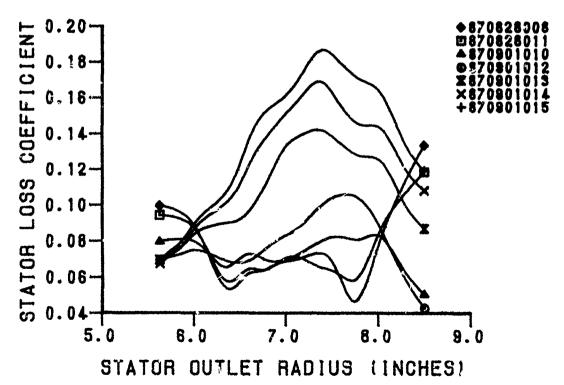


Figure 34. Stator Loss Coefficient (95% N)

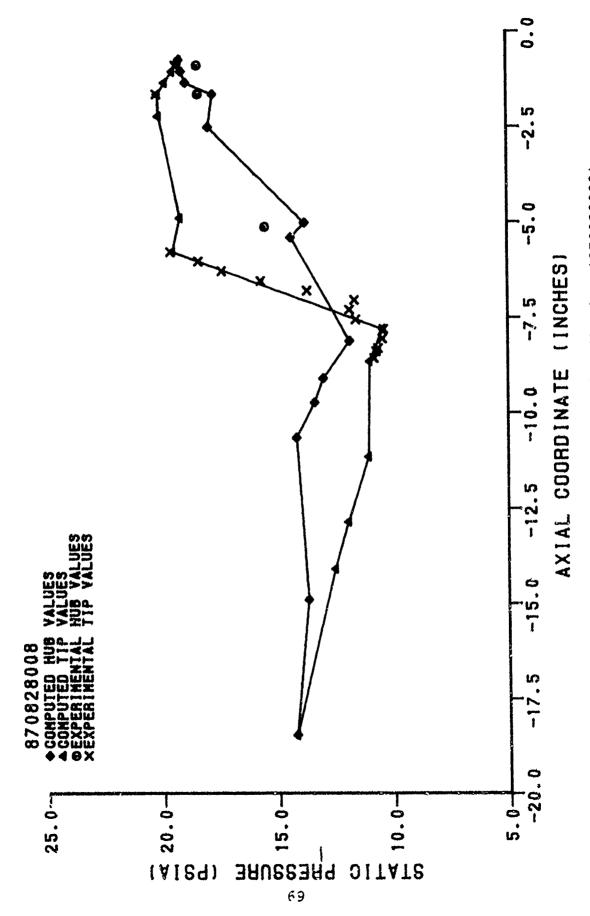


Figure 35. Static Pressure Distribution (870828008)

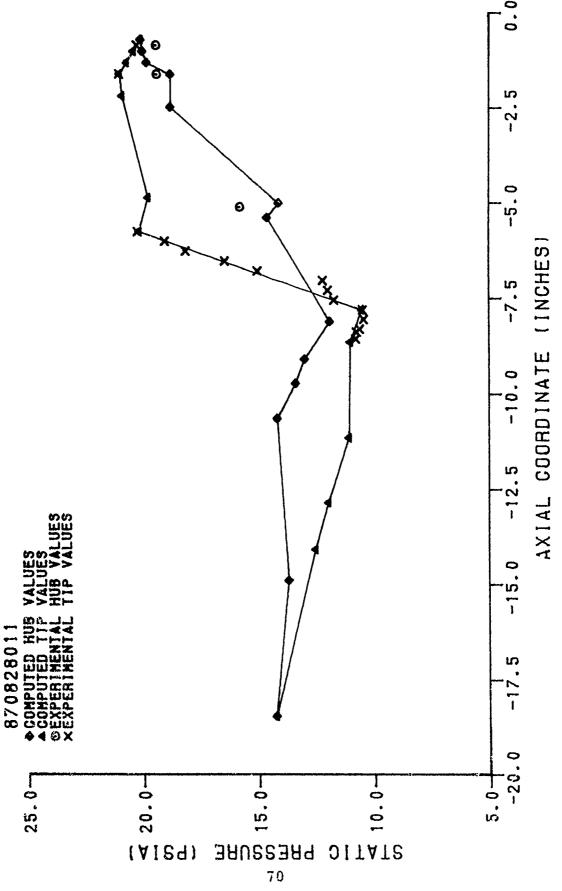
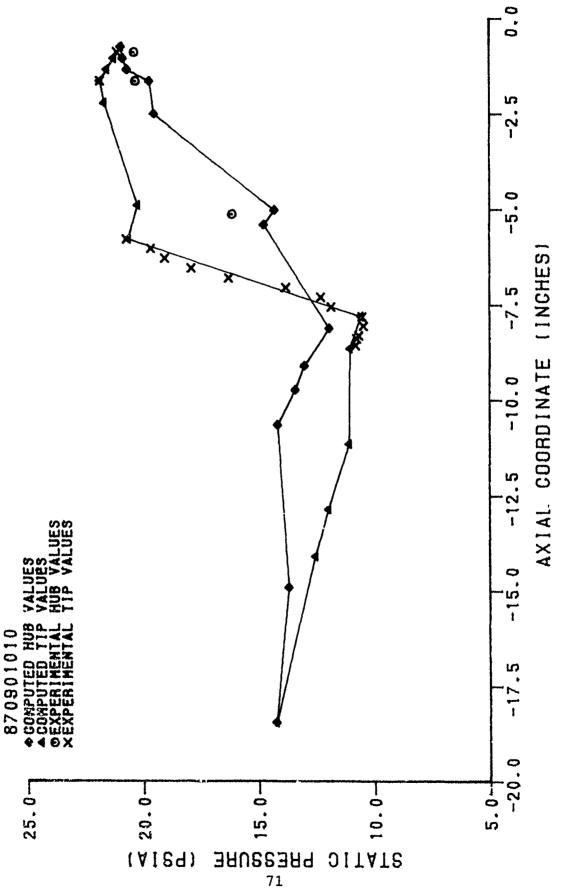


Figure 36. Static Pressure Distribution (870828011)



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Figure 37. Static Pressure Distribution (870901010)

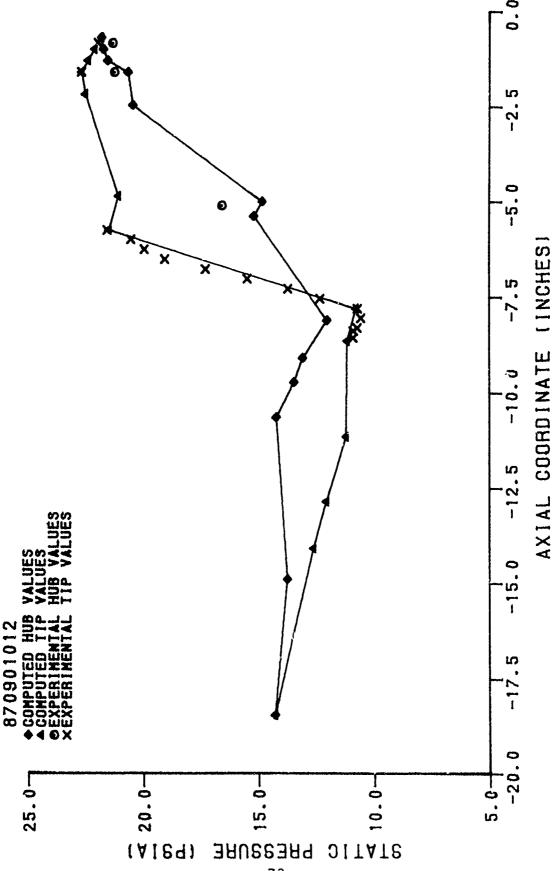
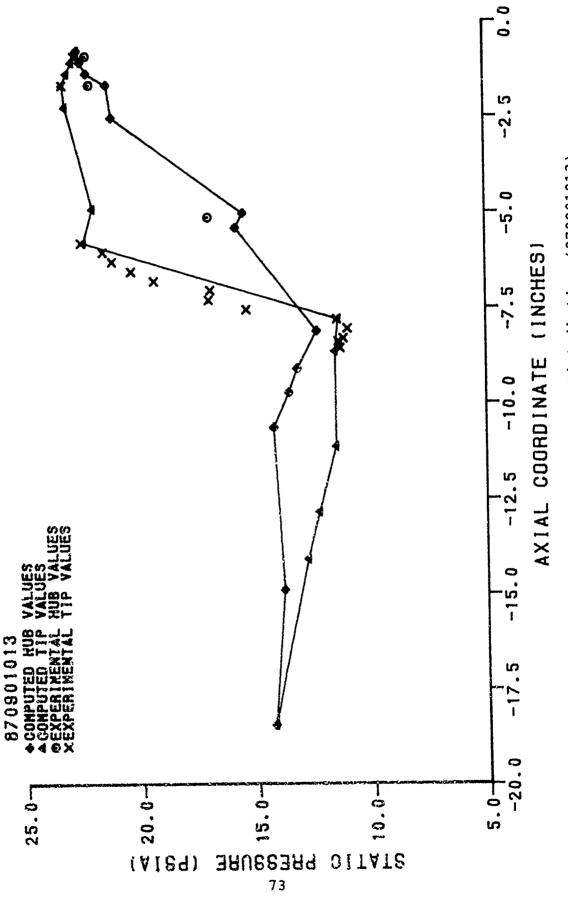
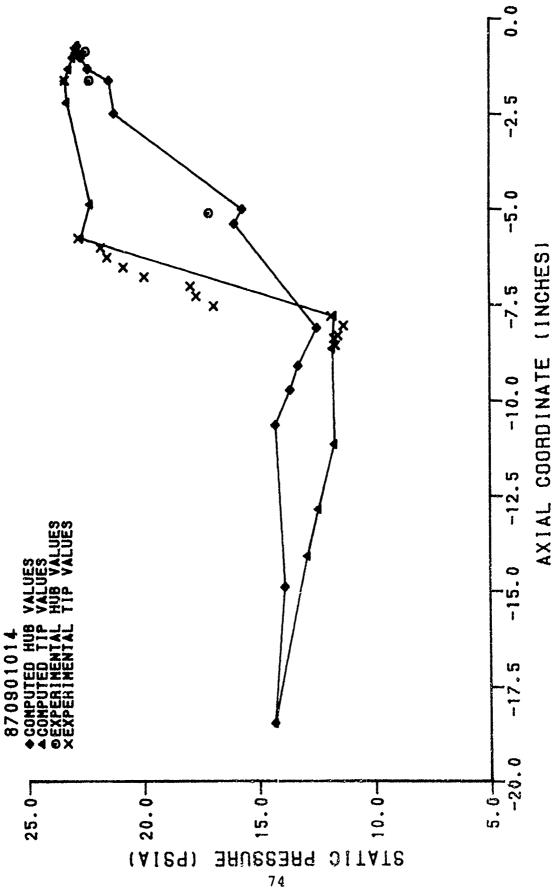


Figure 38. Static Pressure Distribution (870910012)



Static Pressure Distribution (870901013) Figure 39.



Static Pressure Distribution (870901014) Figure 40.

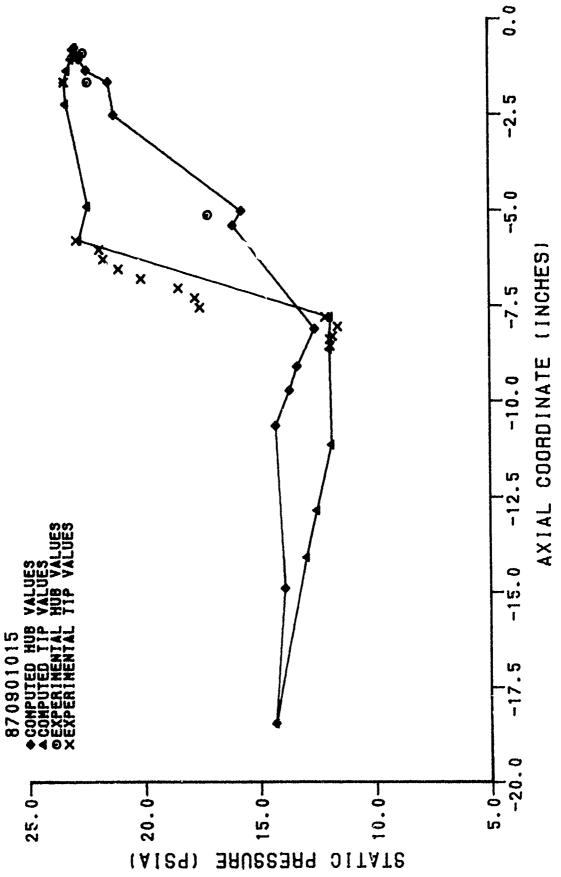


Figure 41. Static Pressure Distribution (870901015)

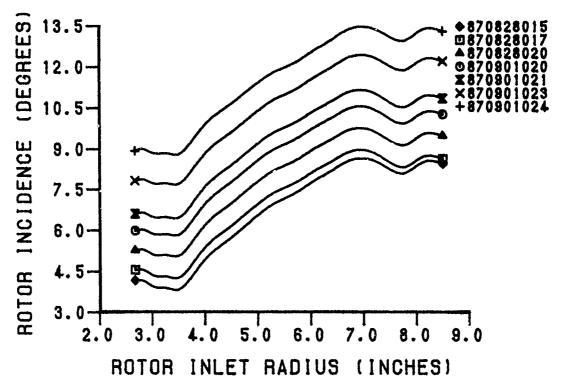


Figure 42. Rotor Incidence Angle (90% N)

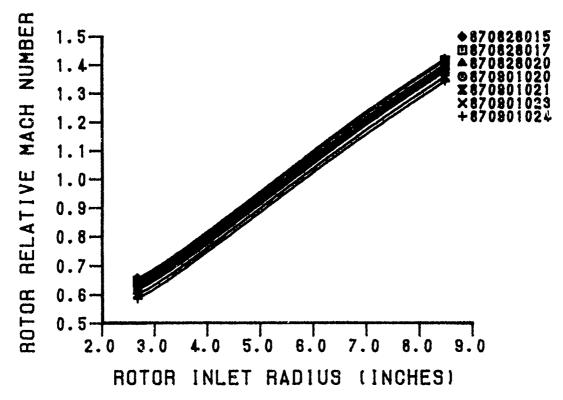


Figure 43. Rotor Relative Inlet Mach Number (90% N)

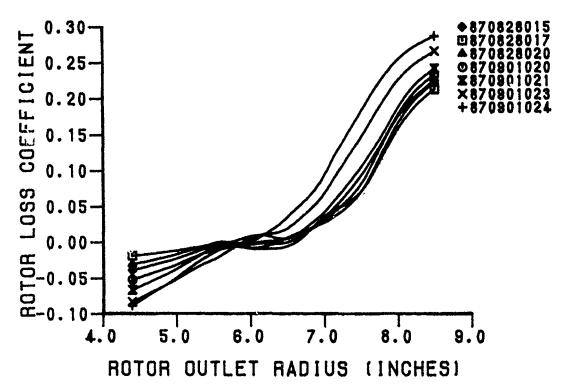


Figure 44. Rotor Loss Coefficient (90% N)

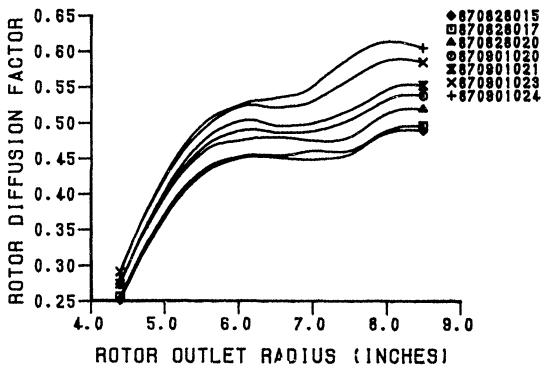


Figure 45. Rotor Diffusion Factor (90% N)

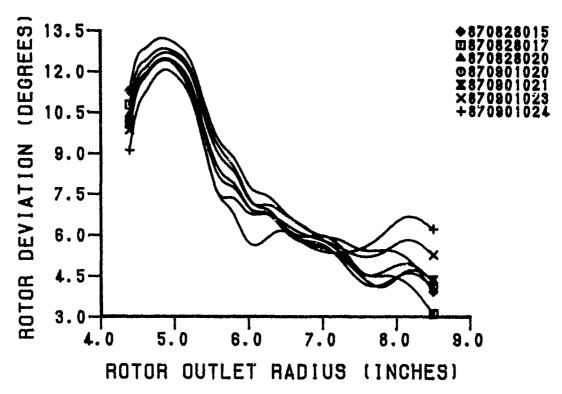


Figure 46. Rotor Deviation Angle (90% N)

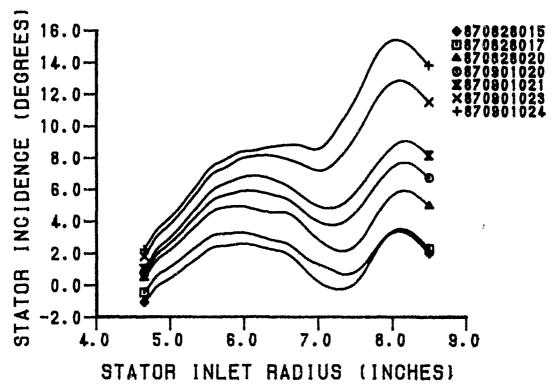


Figure 47. Stator Incidence Angle (90% N)

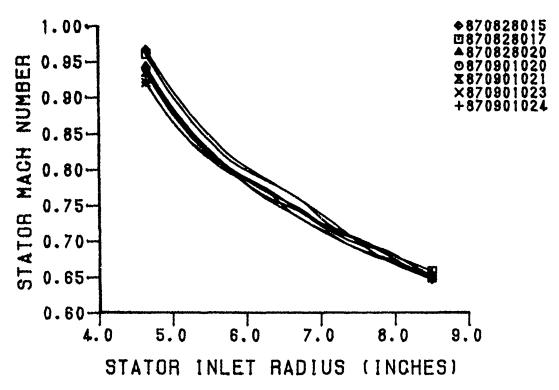


Figure 48. Stator Absolute Inlet Mach Number (90% N)

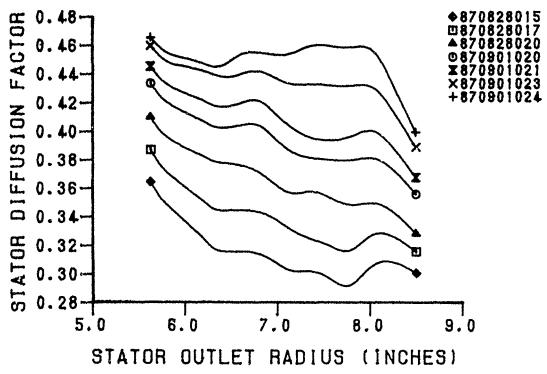


Figure 49. Stator Diffusion Factor (90% N)

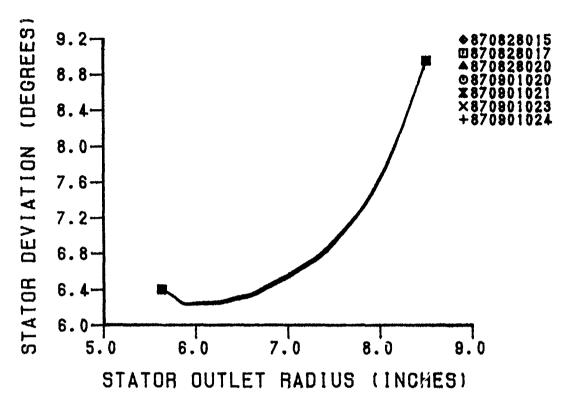


Figure 50. Stator Deviation Angle (90% N)

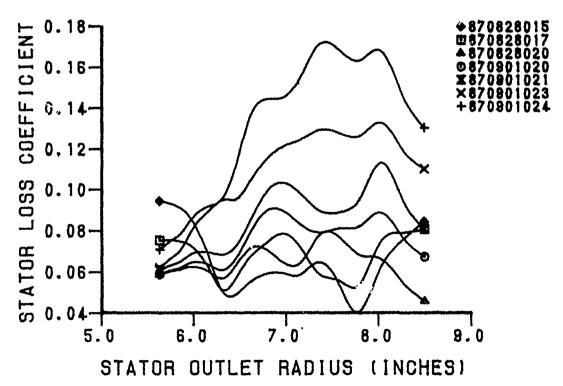
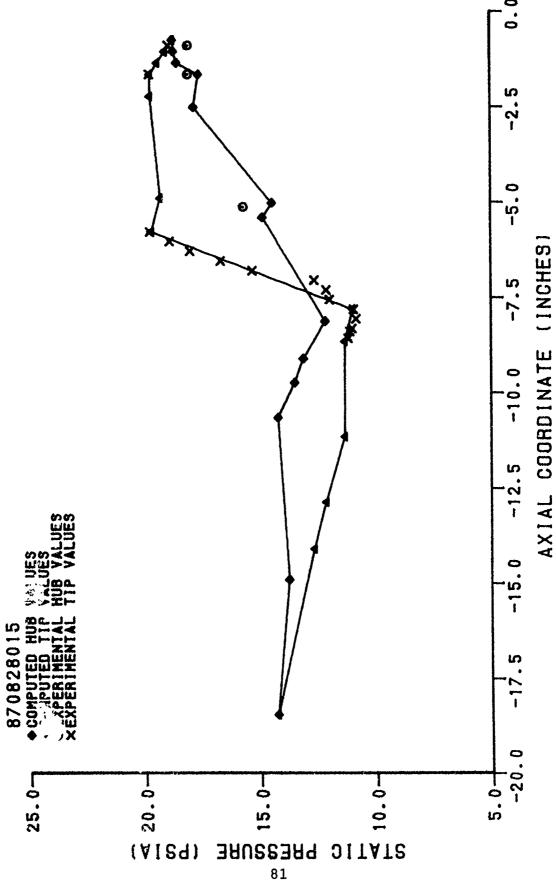
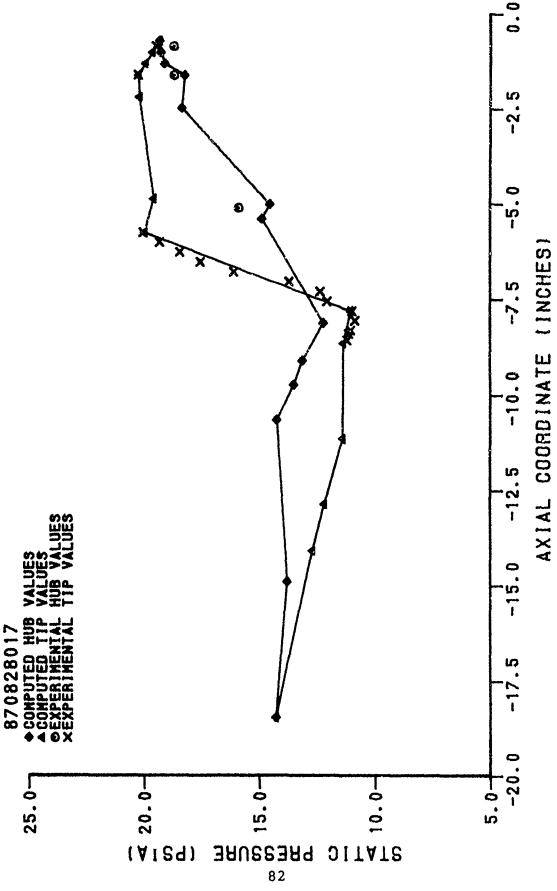


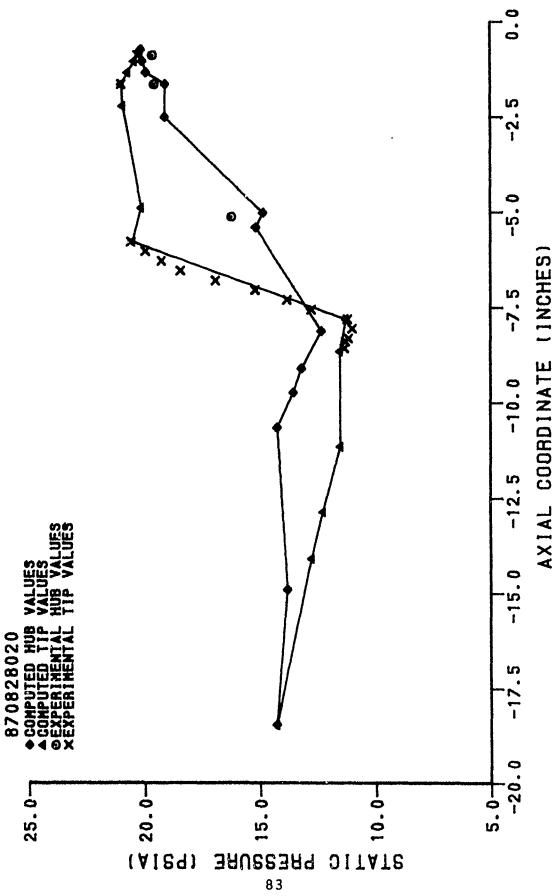
Figure 51. Stator Loss Coefficient (90% N)



Static Pressure Distribution (870828015) Figure 52.



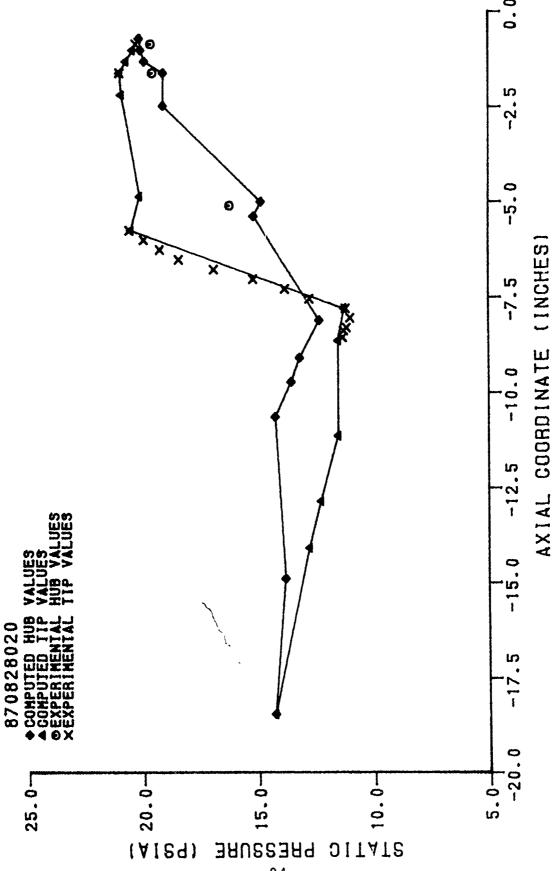
Static Pressure Distribution (870828017) 53. Figure



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Static Pressure Distribution (870828020) 54. Figure

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Static Pressure Distribution (870910020) 55. Figure

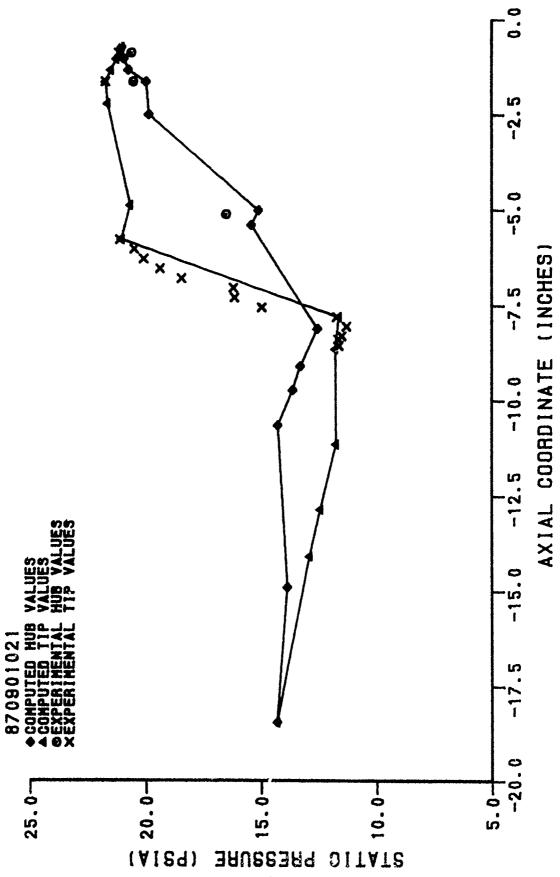


Figure 56. Static Pressure Distribution (870901021)

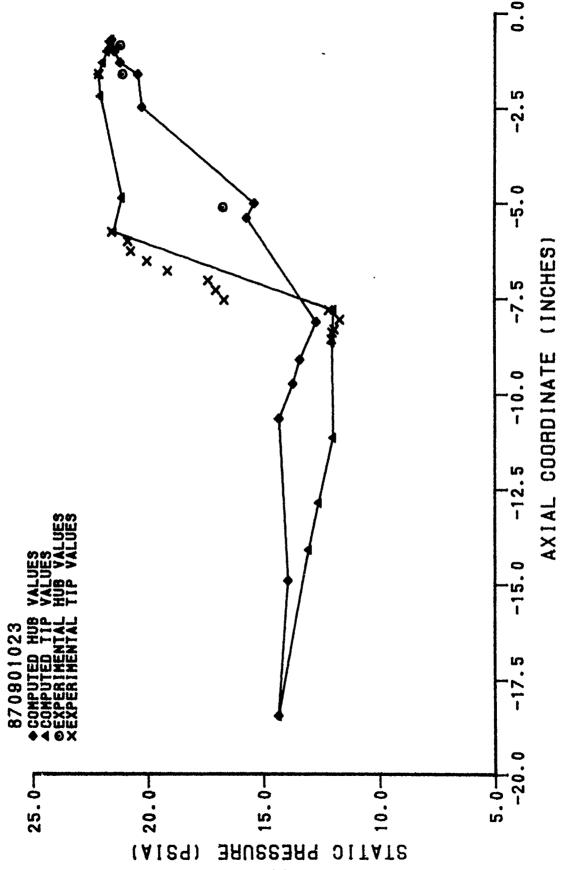
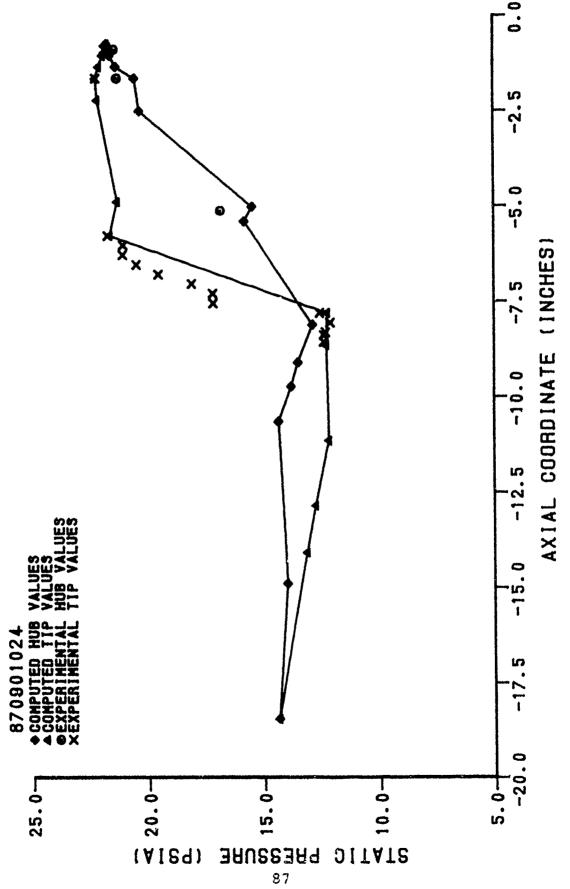


Figure 57. Static Pressure Distribution (870901023)

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Static Pressure Distribution (870901024) Figure 58.

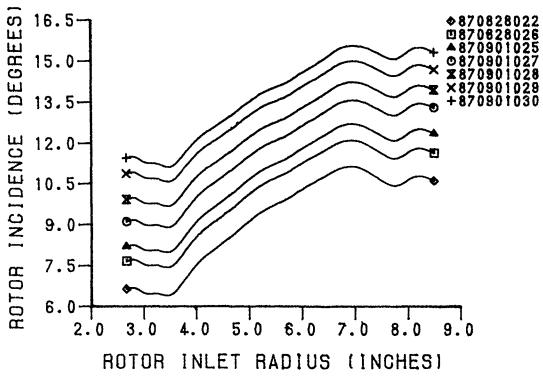


Figure 59. Rotor Incidence Angle (80% N)

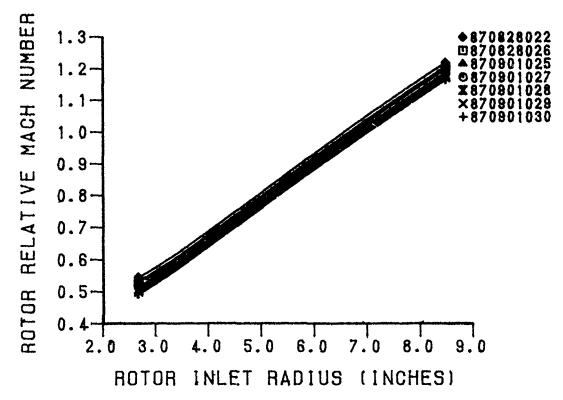


Figure 60. Rotor Relative Inlet Mach Number (80% N)

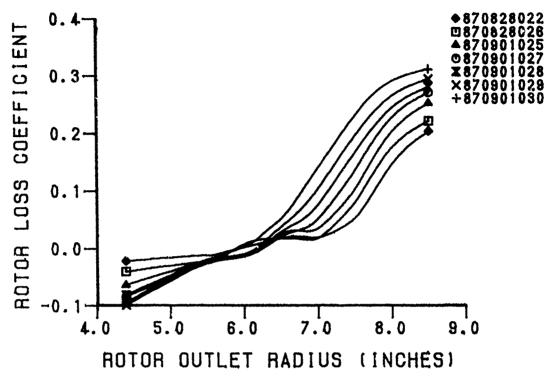


Figure 61. Rotor Loss Coefficient (80% N)

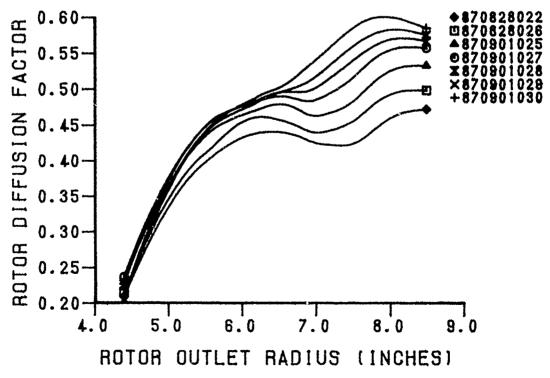


Figure 62. Rotor Diffusion Factor (80% N)

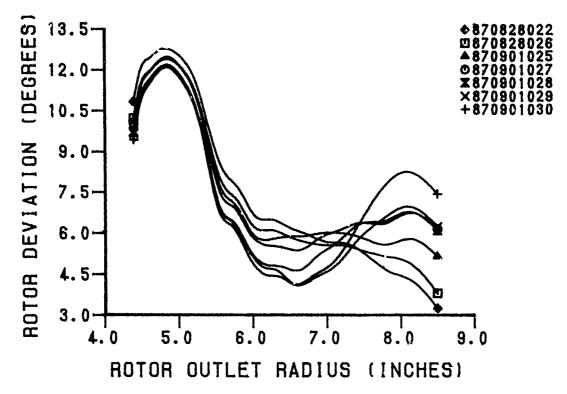


Figure 63. Rotor Deviation Angle (80% N)

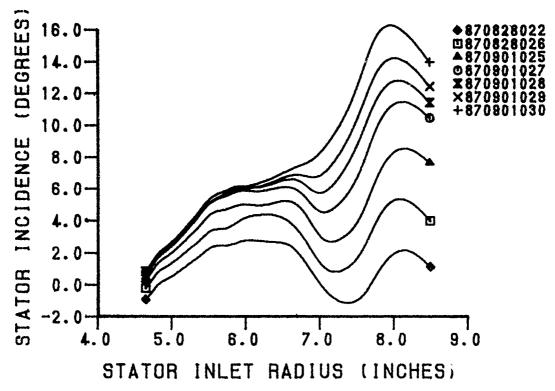


Figure 64. Stator Incidence Angle (80% N)

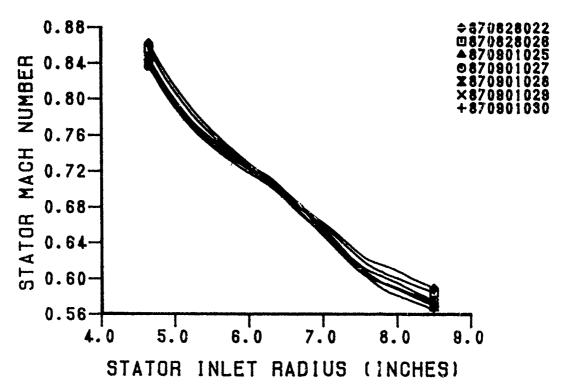


Figure 65. Stator Absolute Inlet Mach Number (80% N)

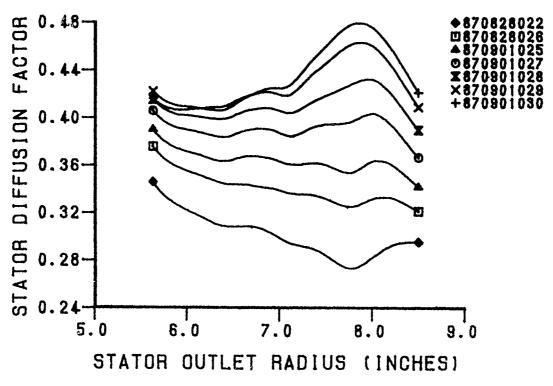


Figure 66. Stator Diffusion Factor (80% N)

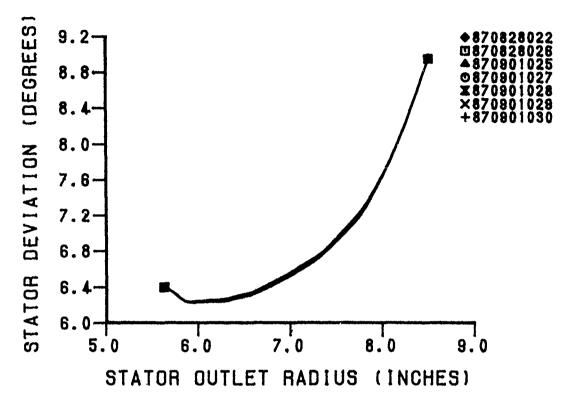


Figure 67. Stator Deviation Angle (80% N)

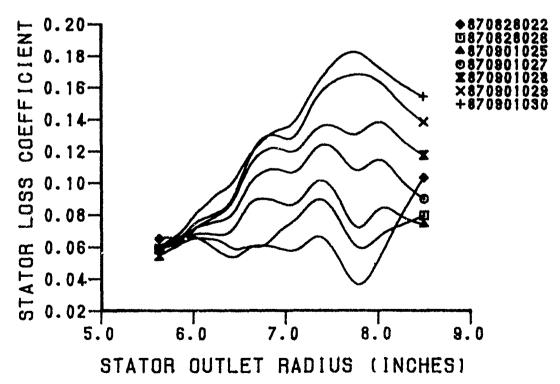
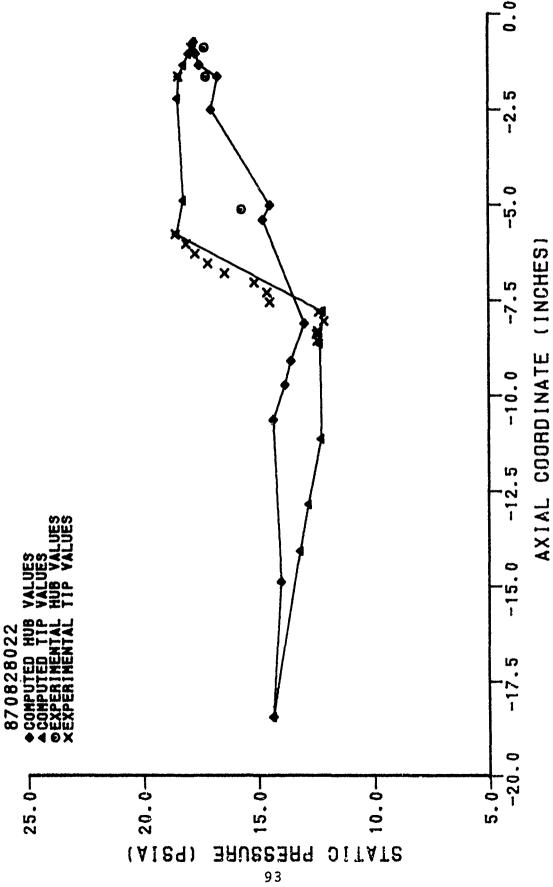


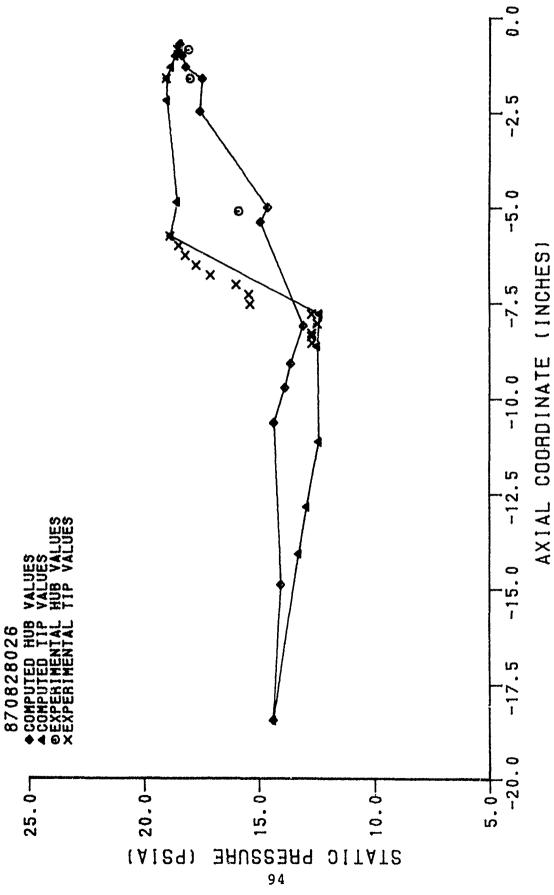
Figure 68. Stator Loss Coefficient (80% N)

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Static Pressure Distribution (870828022) Figure 69.



Static Pressure Distribution (870828026) Figure 70.

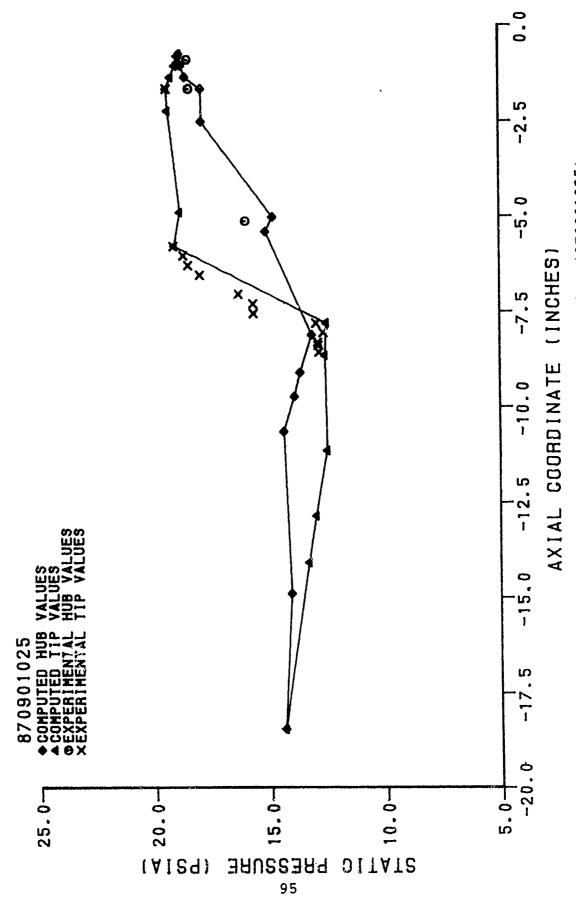
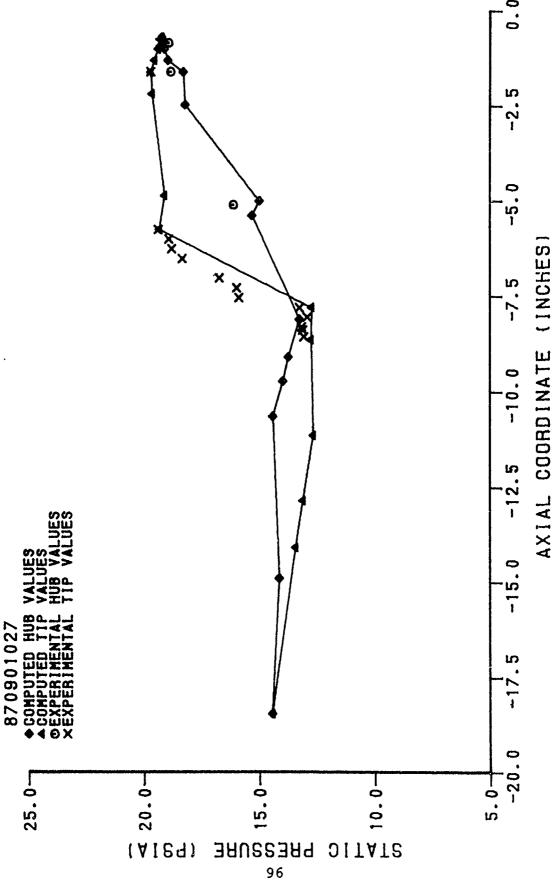


Figure 71. Static Pressure Distribution (870901025)



Static Pressure Distribution (870910027) Figure 72.

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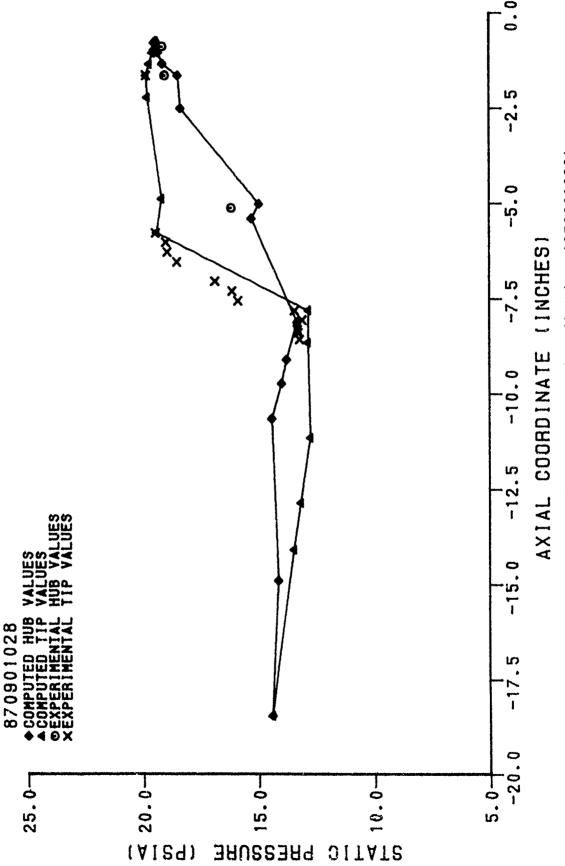
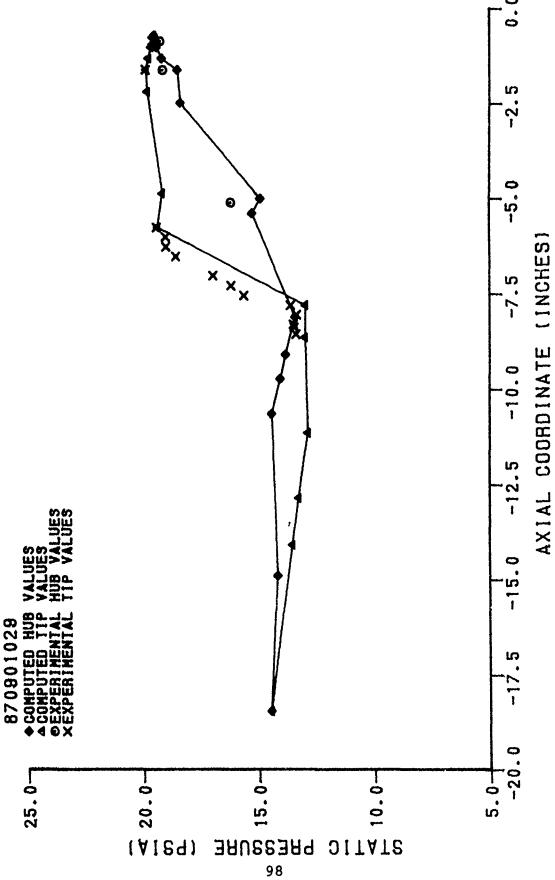


Figure 73. Static Pressure Distribution (870901028)



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Figure 74. Static Pressure Distribution (870901029)

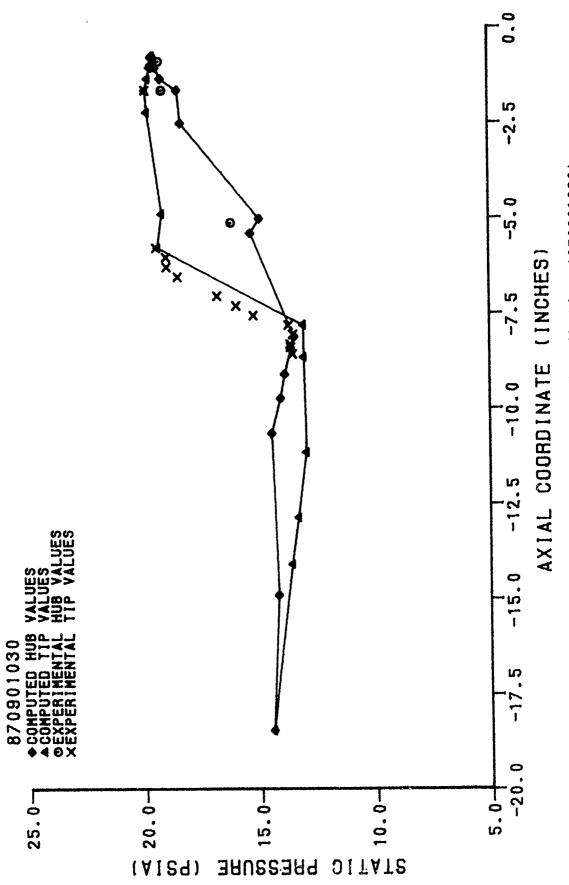


Figure 75. Static Pressure Distribution (870901030)

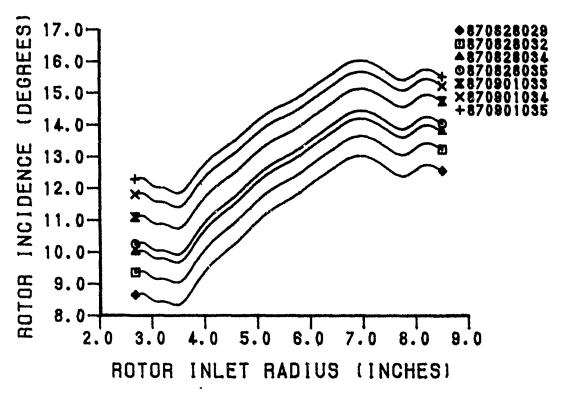


Figure 76. Rotor Incidence Angle (70% N)

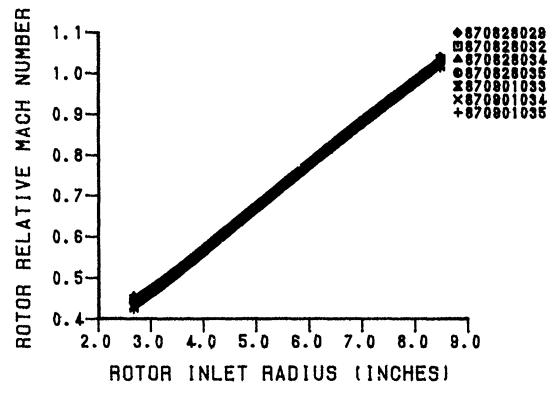


Figure 77. Rotor Relative Inlet Mach Number (70% N)

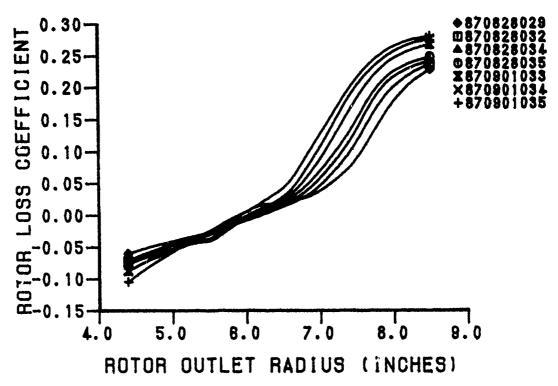


Figure 78. Rotor Loss Coefficient (70% N)

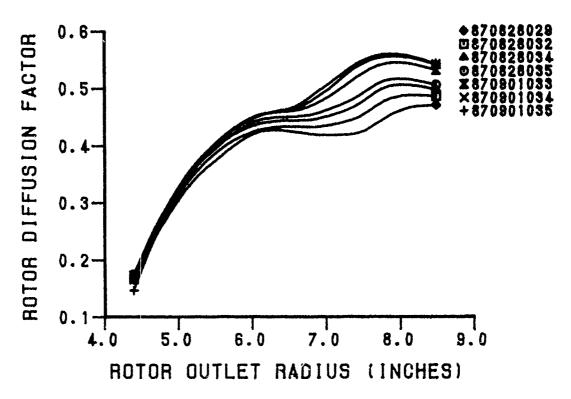


Figure 79. Rotor Diffusion Factor (70% N)

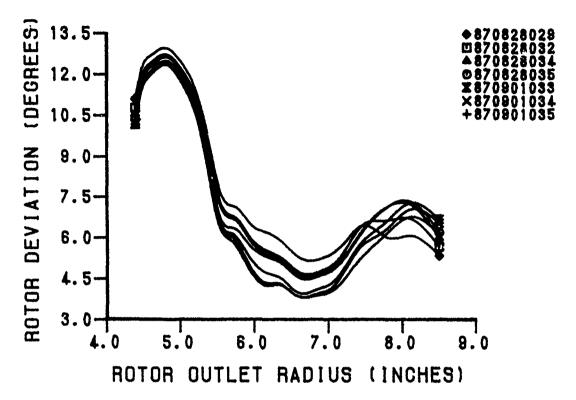


Figure 80. Rotor Deviation Angle (70% N)

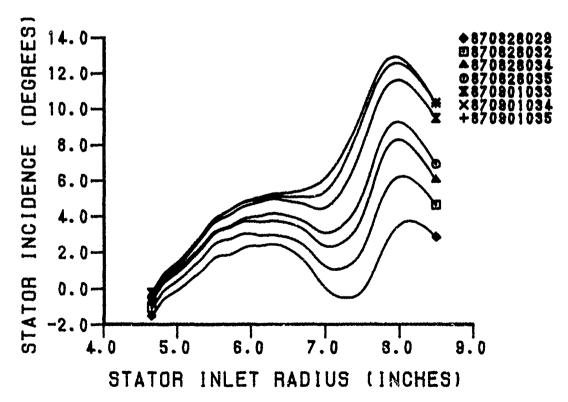


Figure 81. Stator Incidence Angle (70% N)

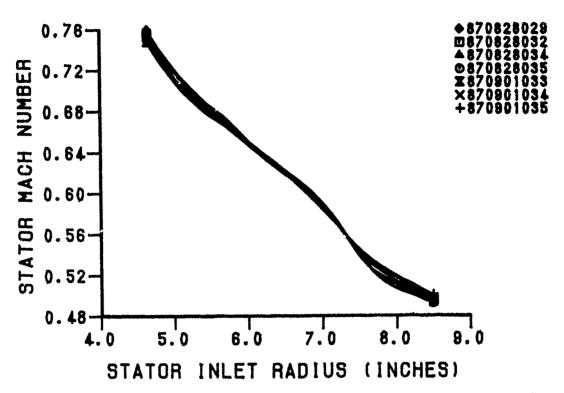


Figure 82. Stator Absolute Inlet Mach Number (70% N)

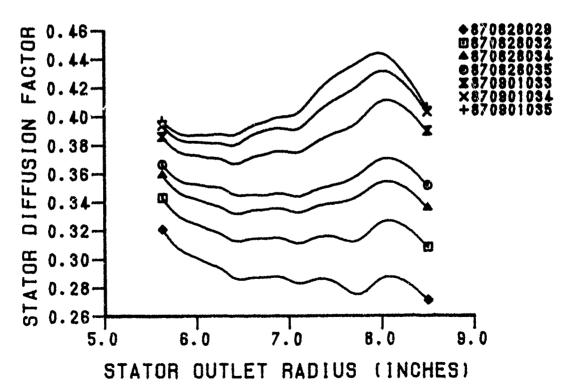


Figure 83. Stator Diffusion Factor (70% N)

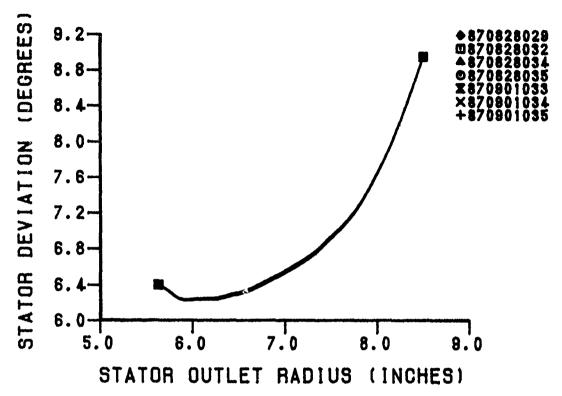


Figure 84. Stator Deviation Angle (70% N)

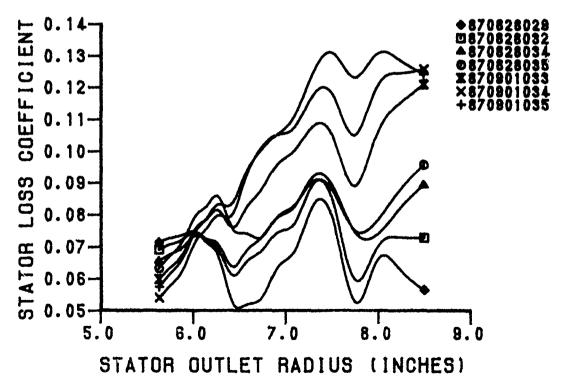
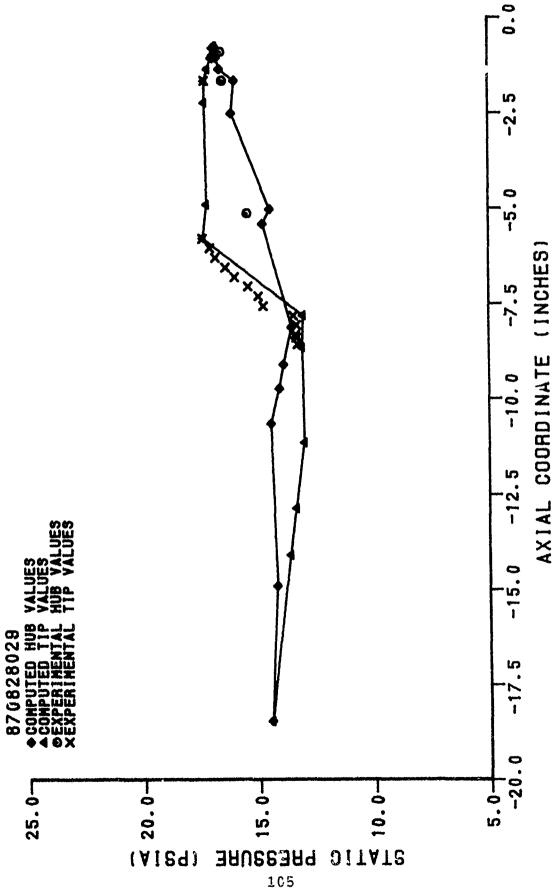


Figure 85. Stator Loss Coefficient (70% N)



Static Pressure Distribution (870828029) Figure 86.

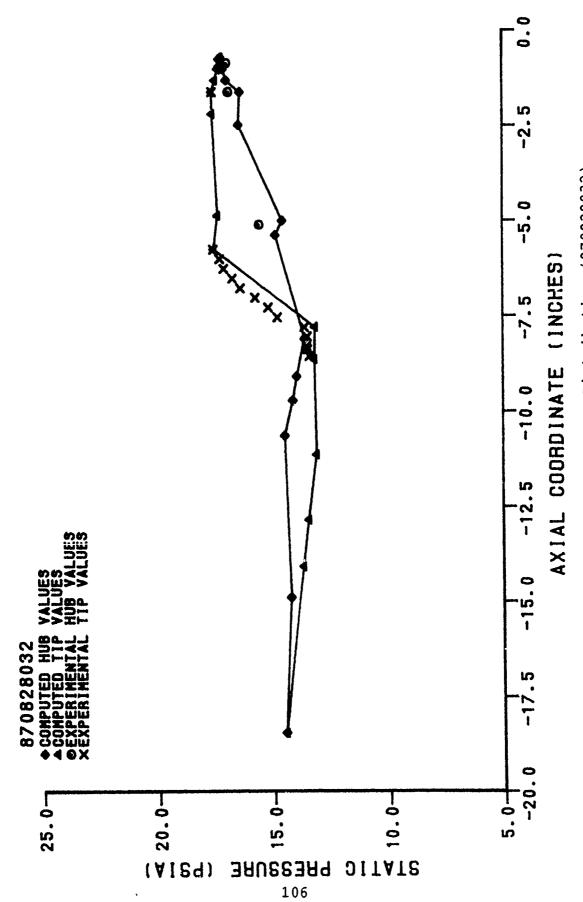


Figure 87. Static Pressure Distribution (870828032)

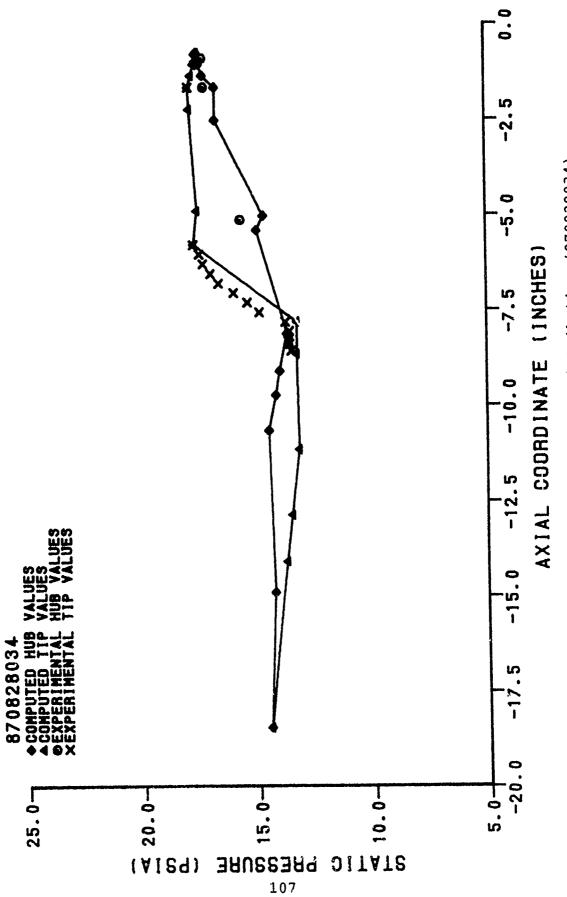
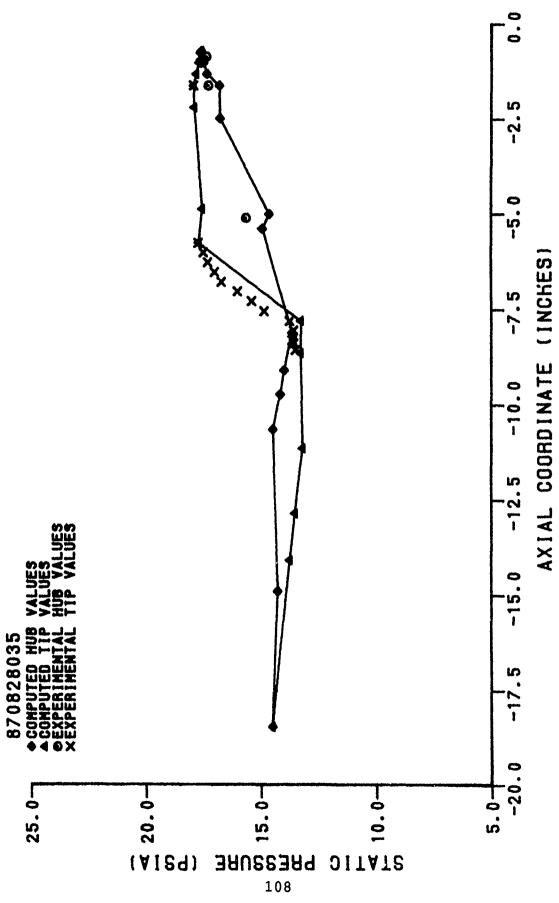
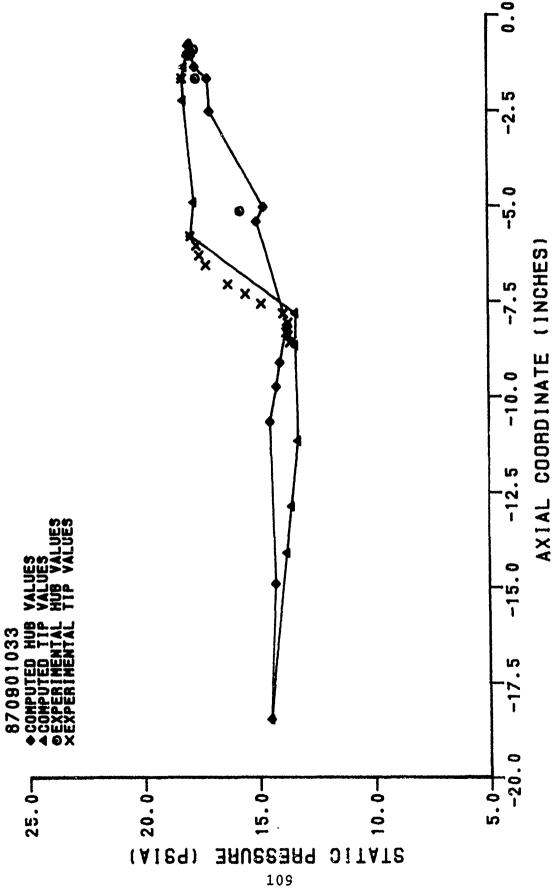


Figure 88. Static Pressure Distribution (870828034)



Static Pressure Distribution (870828035) Figure 89.



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Figure 90. Static Pressure Distribution (870901033)

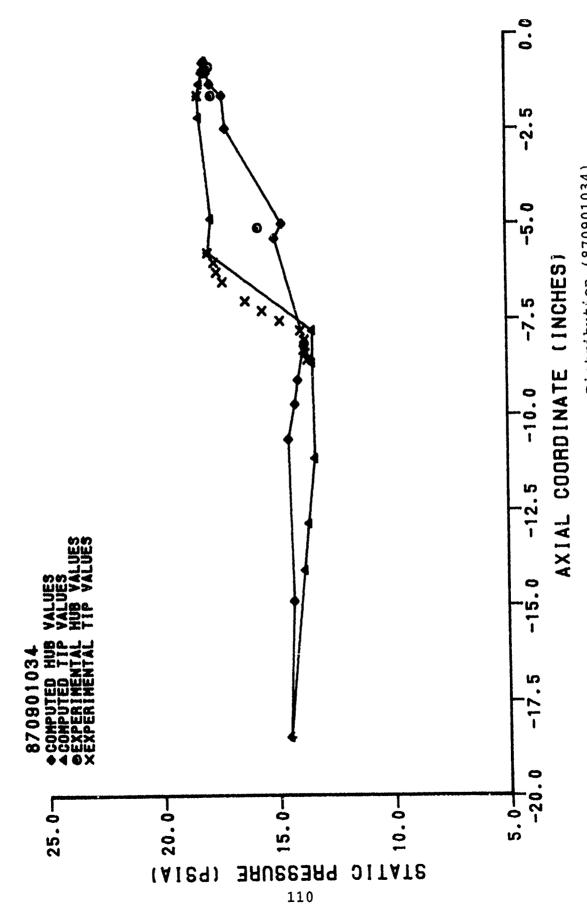
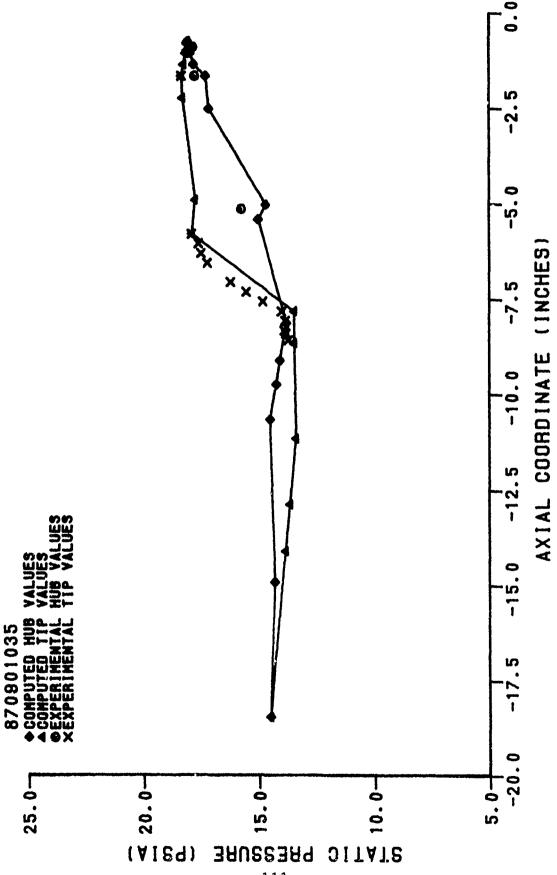


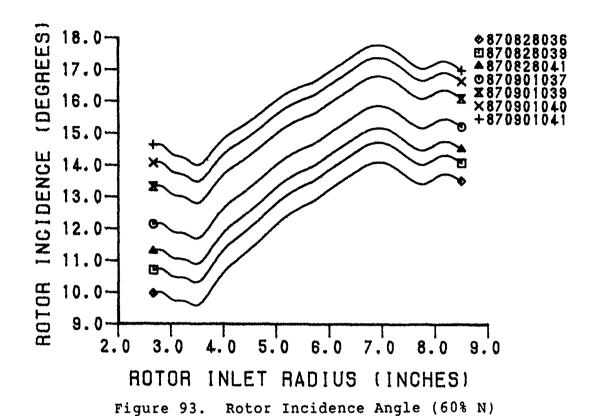
Figure 91. Static Pressure Distribution (870901034)

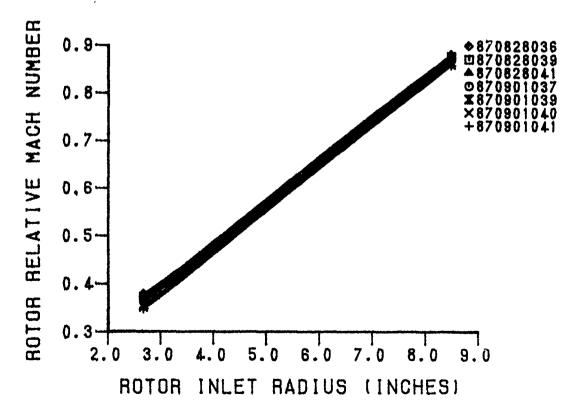


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Figure 92. Static Pressure Distribution (870901035)





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Figure 94. Rotor Relative Inlet Mach Number (60% N)

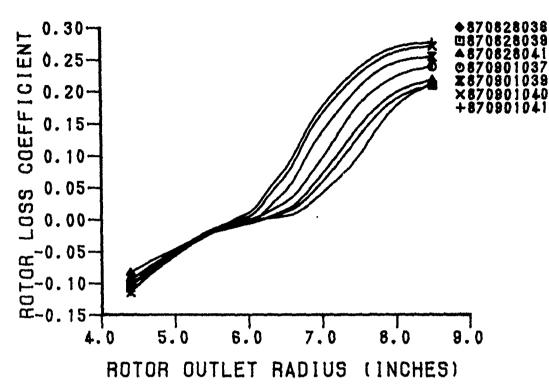


Figure 95. Rotor Loss Coefficient (60% N)

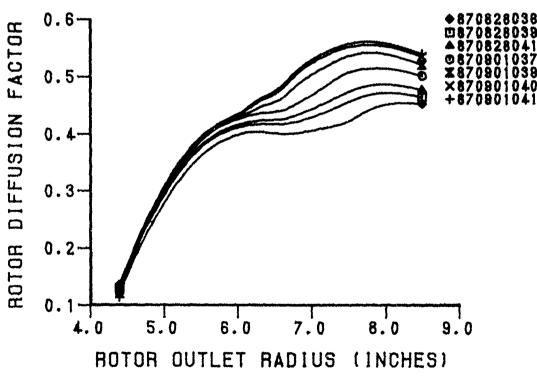


Figure 96. Rotor Diffusion Factor (60% N)

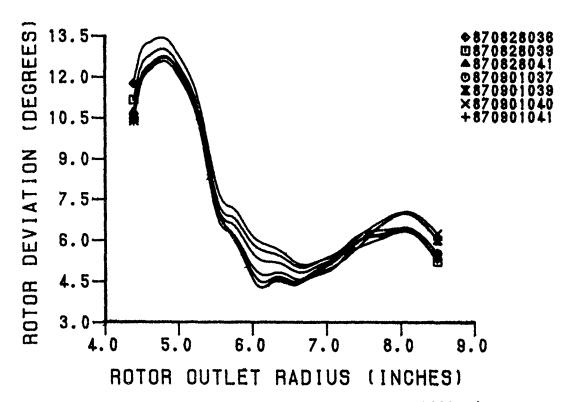


Figure 97. Rotor Deviation Angle (60% N)

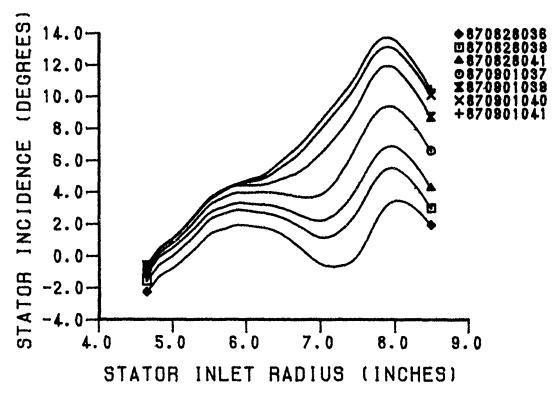


Figure 98. Stator Incidence Angle (60% N)

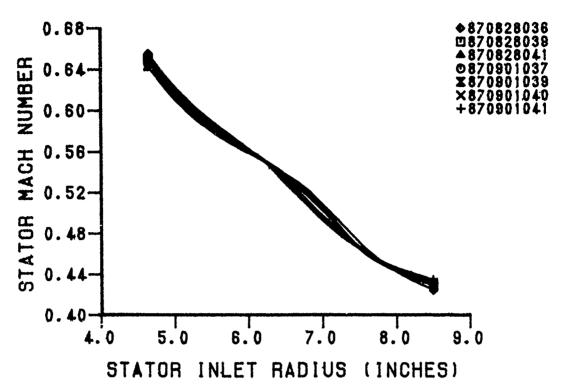


Figure 99. Stator Absolute Inlet Mach Number (60% N)

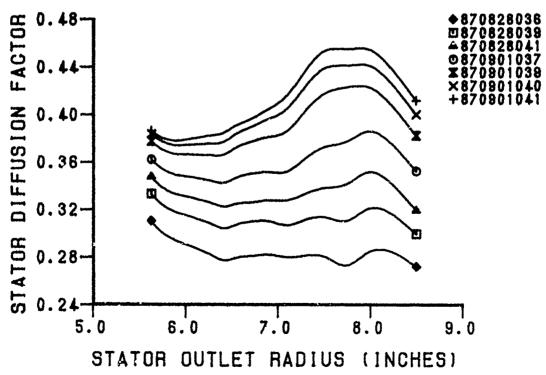


Figure 100. Stator Diffusion Factor (60% N)

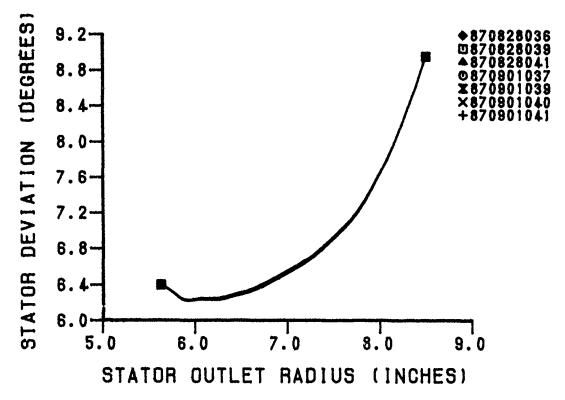


Figure 101. Stator Deviation Angle (60% N)

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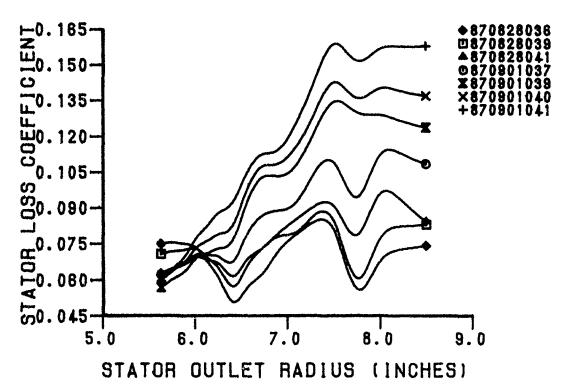
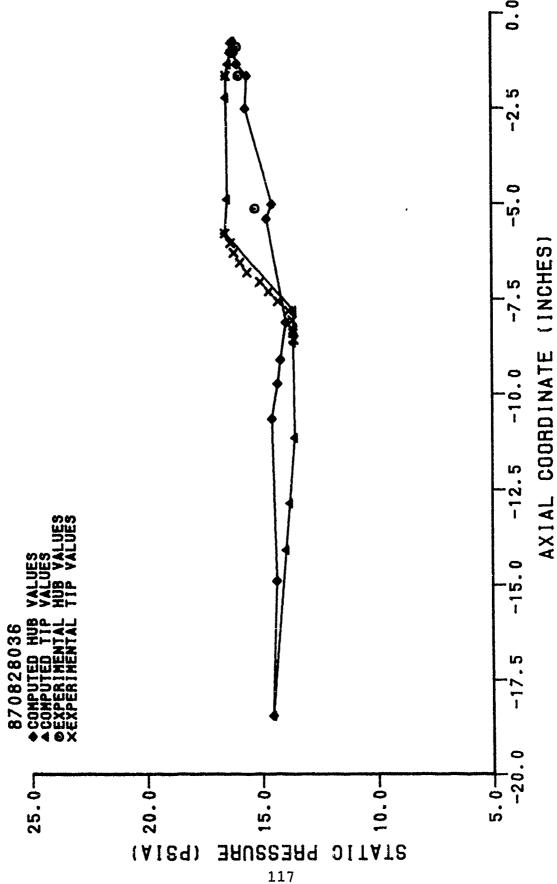
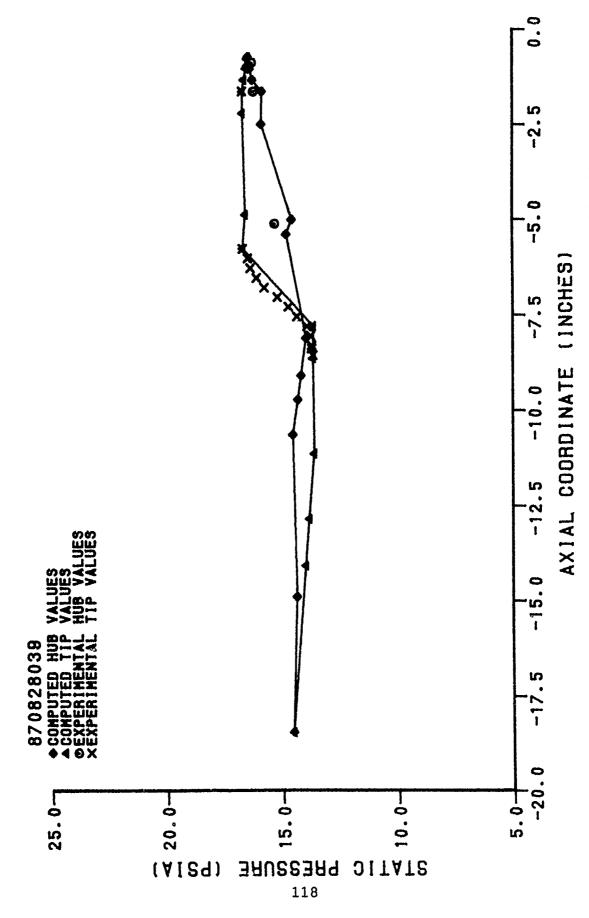


Figure 102. Stator Loss Coefficient (60% N)

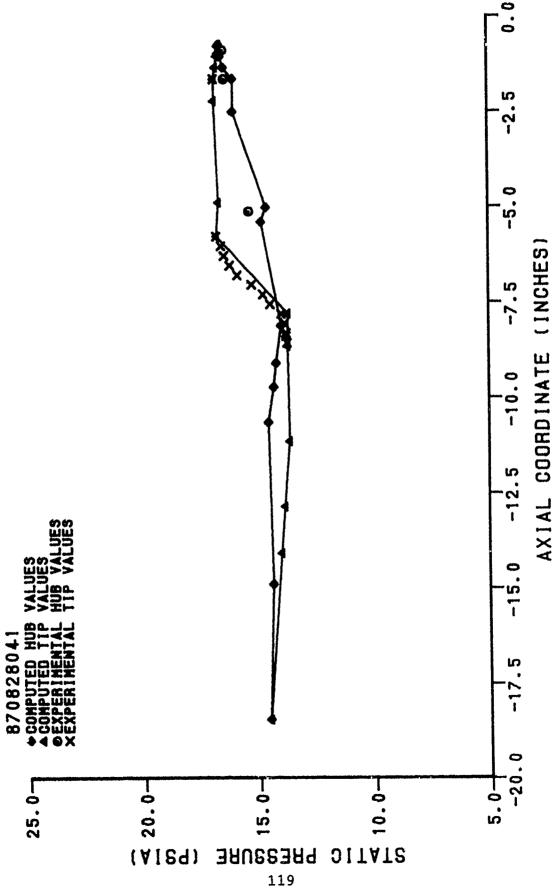


Static Pressure Distribution (870828036) Figure 103.



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Figure 104. Static Pressure Distribution (870828039)



Static Pressure Distribution (870828041) Figure 105.

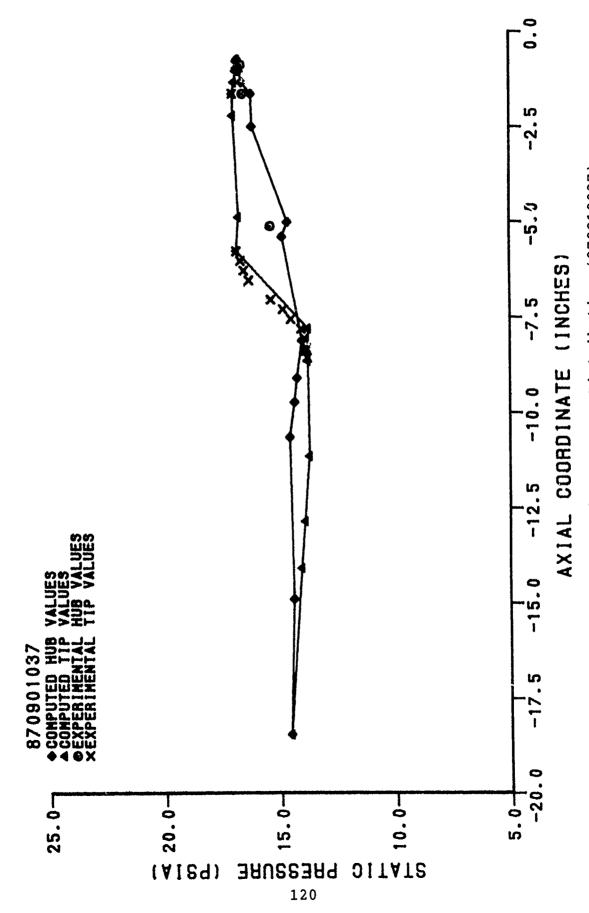


Figure 106. Static Pressure Distribution (870910037)

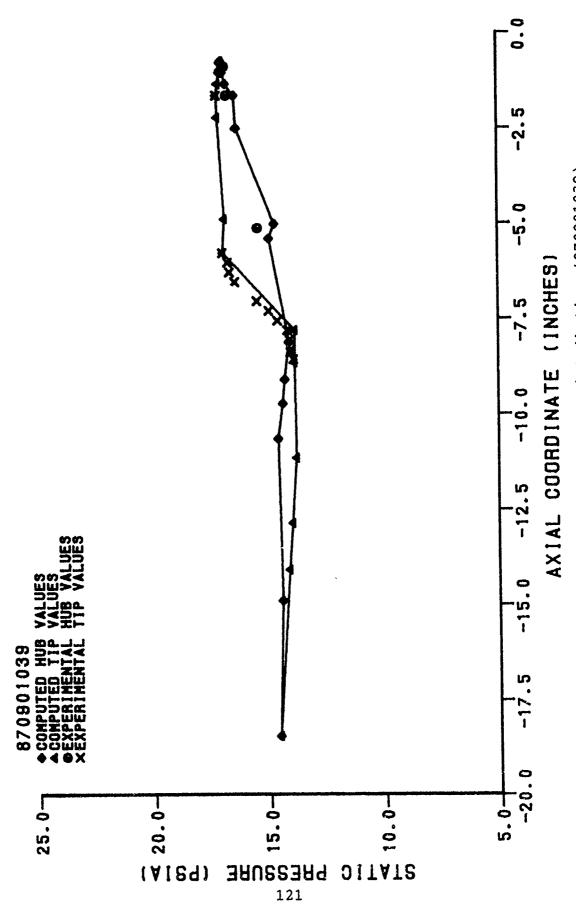


Figure 107. Static Pressure Distribution (870901039)

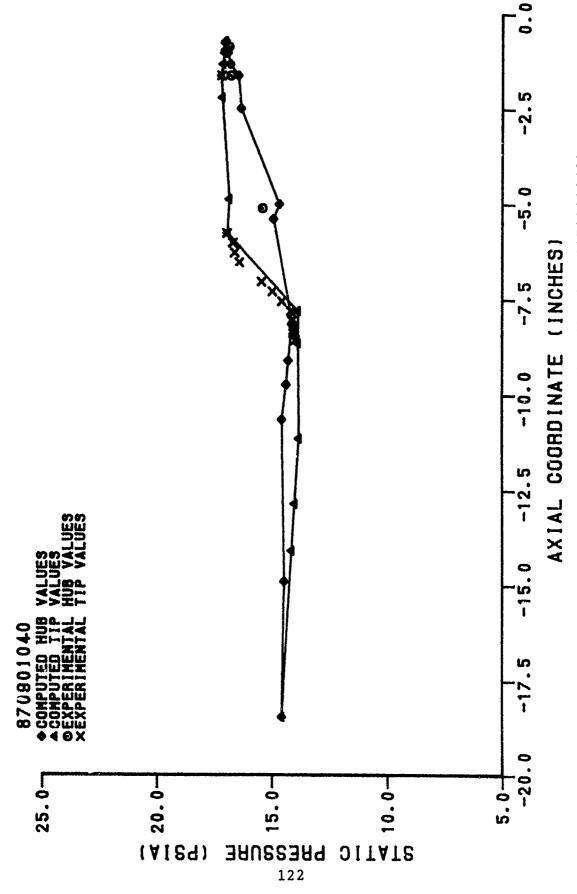
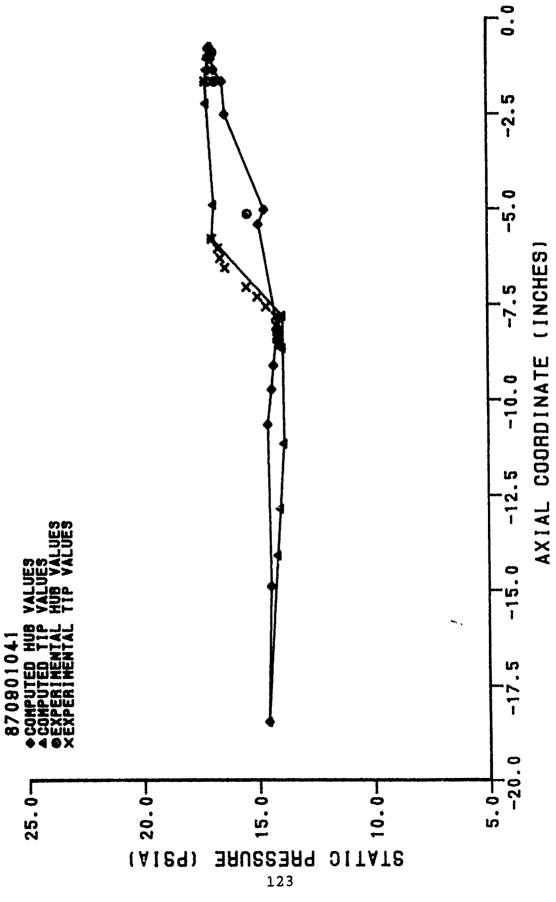
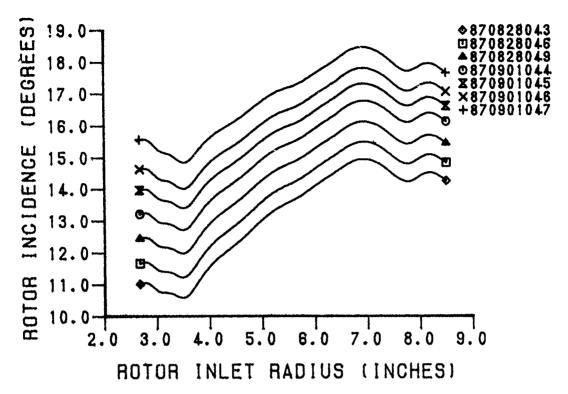


Figure 108. Static Pressure Distribution (870901040)



Static Pressure Distribution (870901041) Figure 109.



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Figure 110. Rotor Incidence Angle (50% N)

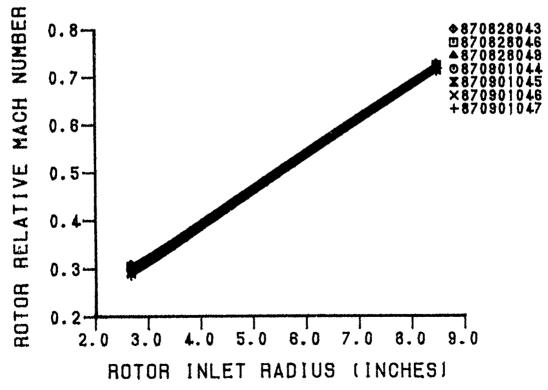


Figure 111. Rotor Relative Inlet Mach Number (50% N)

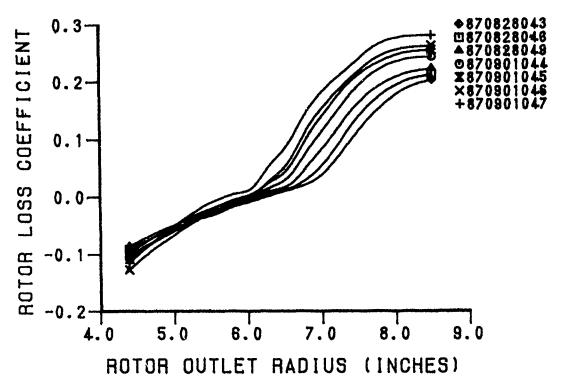


Figure 112. Rotor Loss Coefficient (50% N)

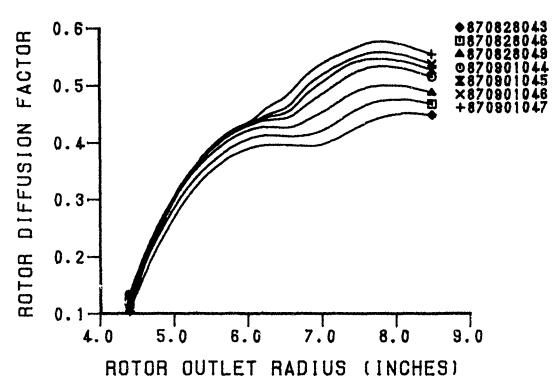
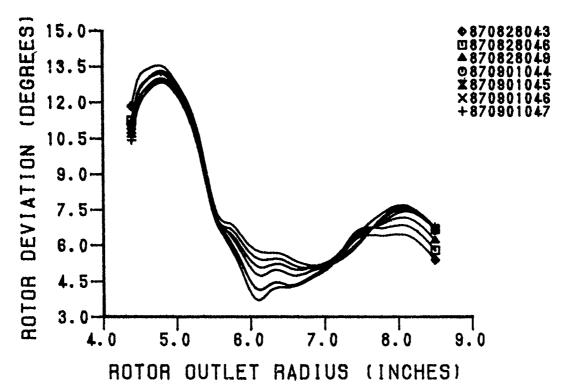


Figure 113. Rotor Diffusion Factor (50% N)



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Figure 114. Rotor Deviation Angle (50% N)

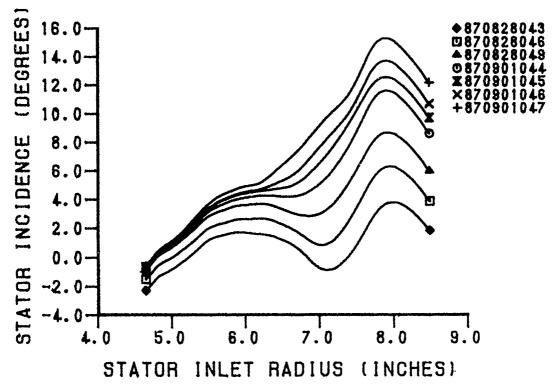


Figure 115. Stator Incidence Angle (50% N)

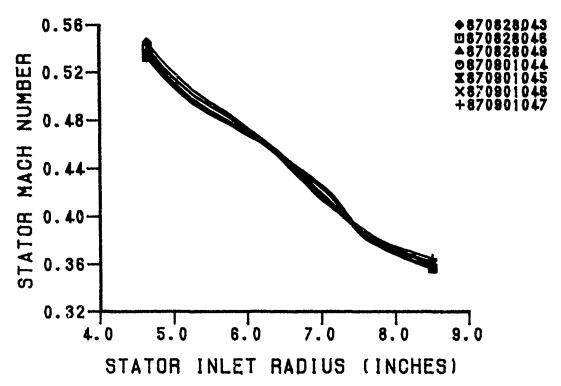


Figure 116. Stator Absolute Inlet Mach Number (50% N)

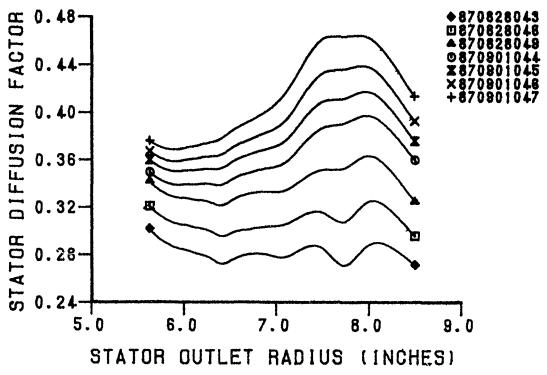


Figure 117. Stator Diffusion Factor (50% N)

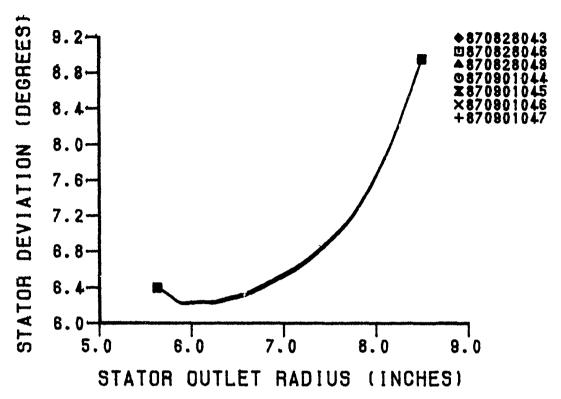


Figure 118. Stator Deviation Angle (50% N)

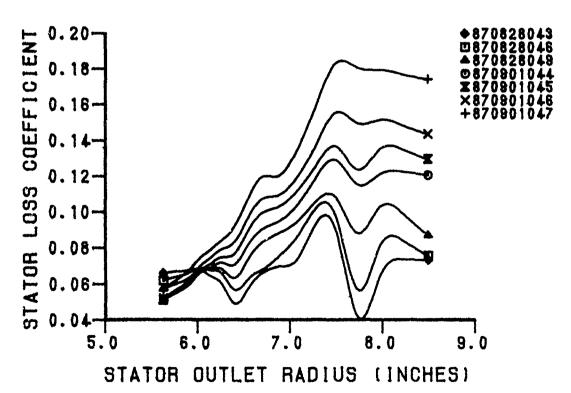
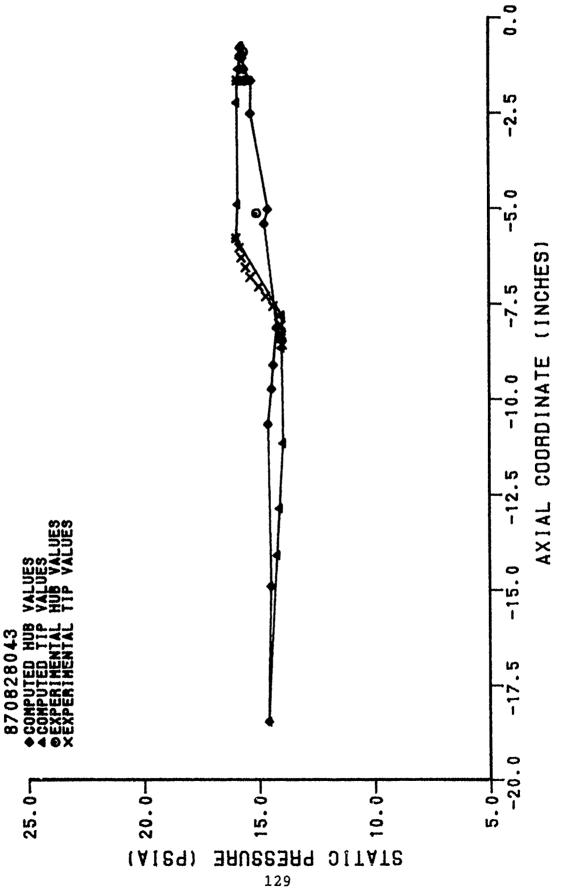


Figure 119. Stator Loss Coefficient (50% N)



Static Pressure Distribution (870828043) Figure 120.

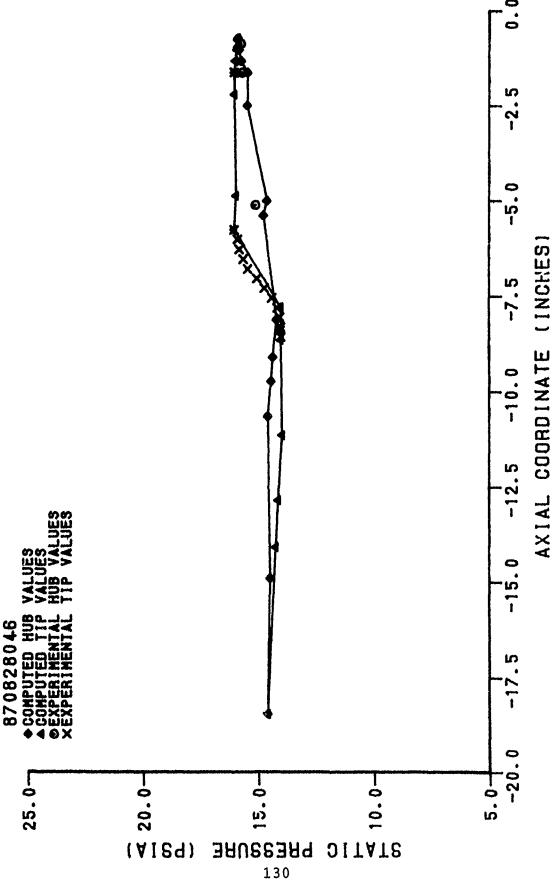


Figure 121. Static Pressure Distribution (870828046)

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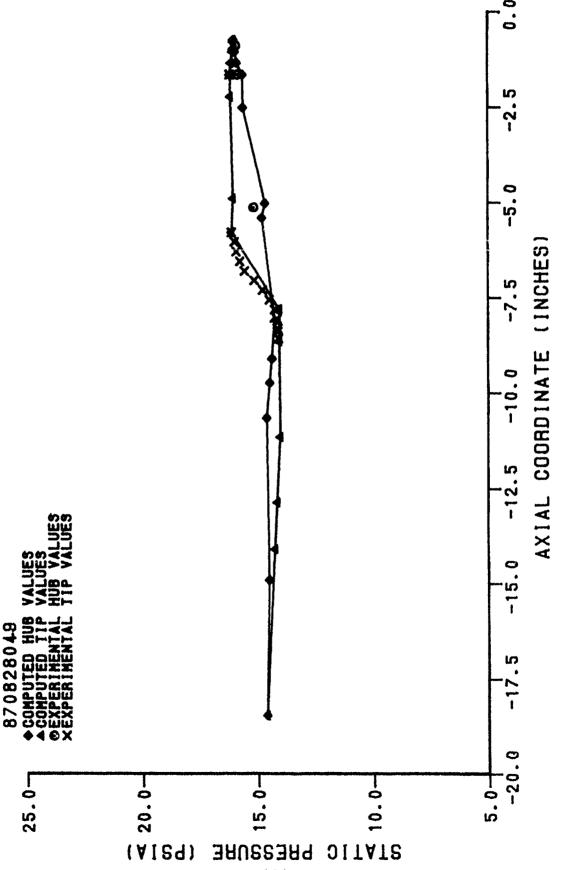
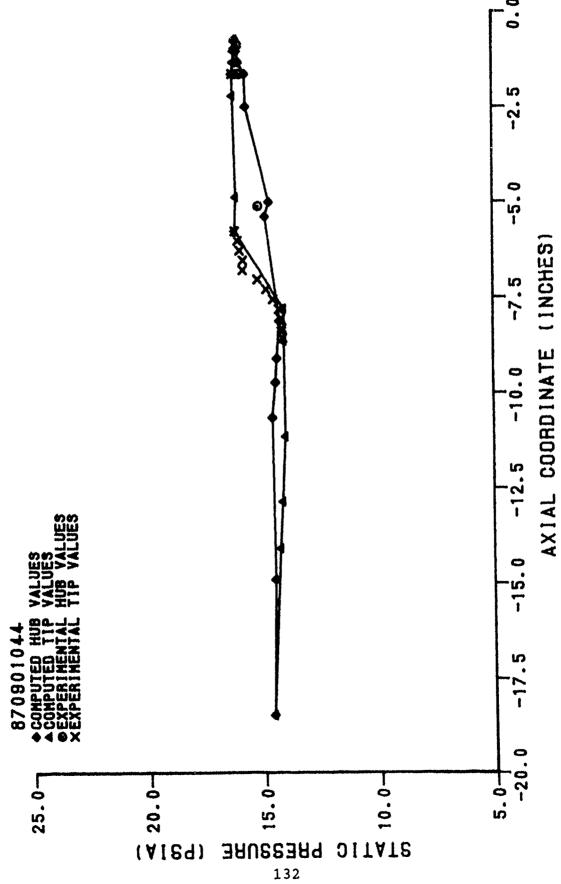
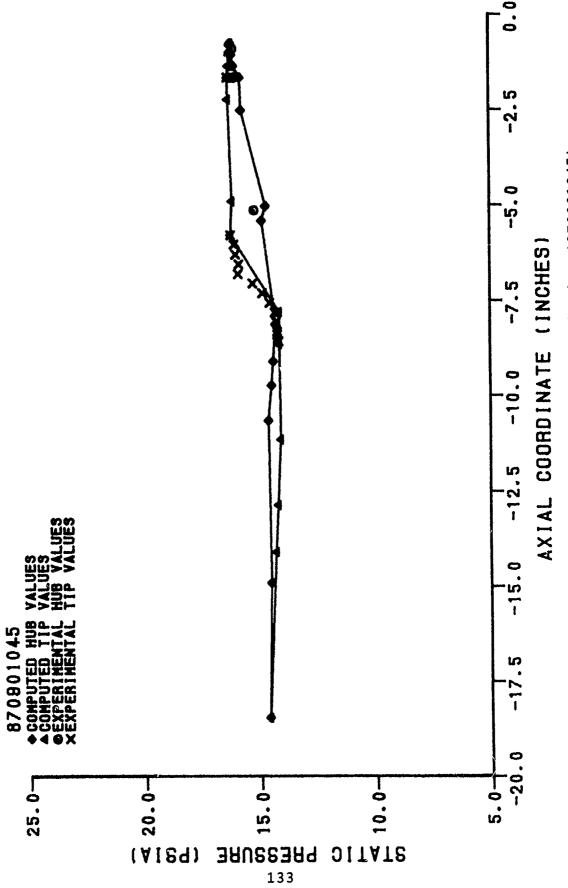


Figure 122. Static Pressure Distribution (870828049)



Static Pressure Distribution (870910044) Figure 123.



Static Pressure Distribution (870901045) Figure 124.

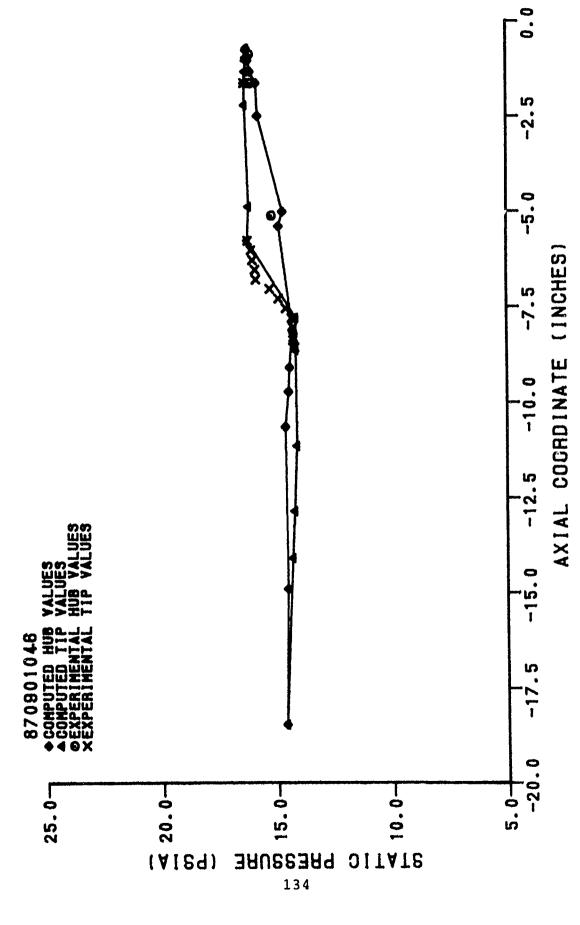
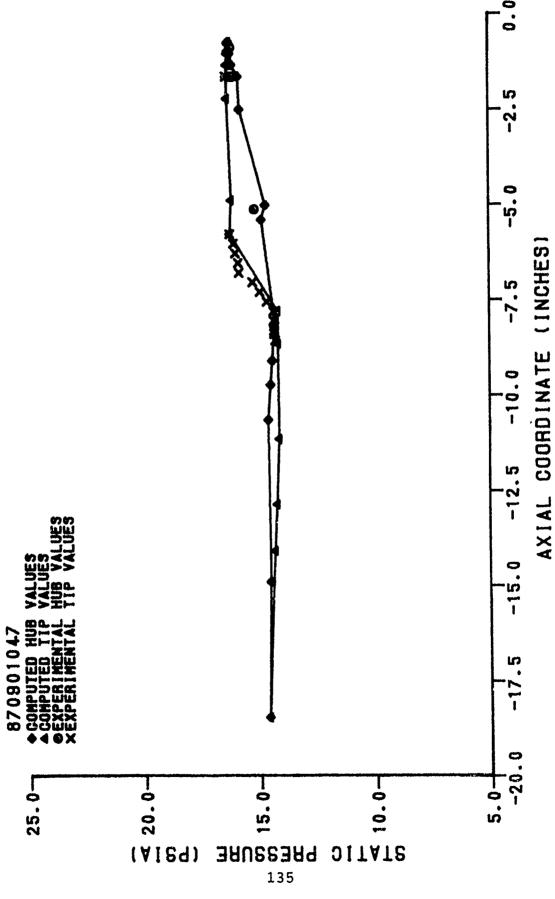


Figure 125. Static Pressure Distribution (870901046)

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Static Pressure Distribution (870901047) Figure 126.

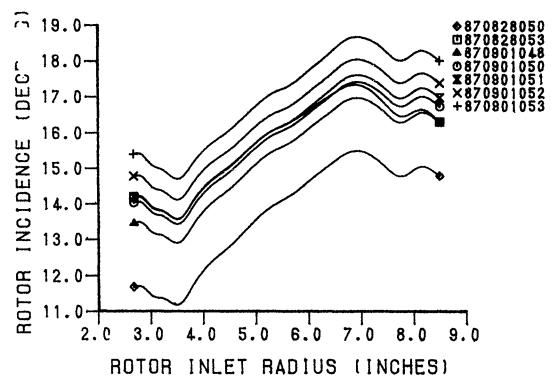


Figure 127. Rotor Incidence Angle (40% N)

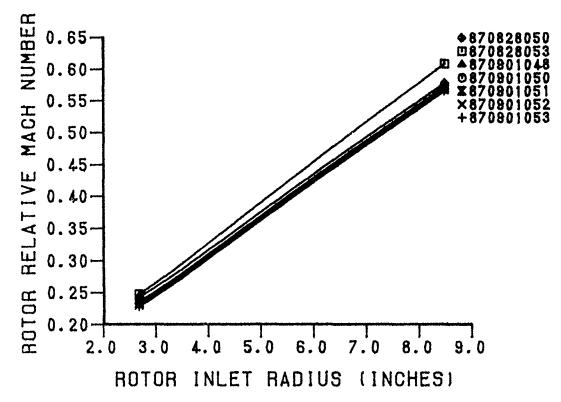


Figure 128. Rotor Relative Inlet Mach Number (40% N)

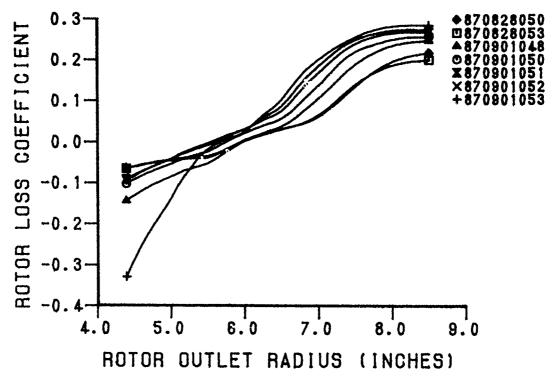


Figure 129. Rotor Loss Coefficient (40% N)

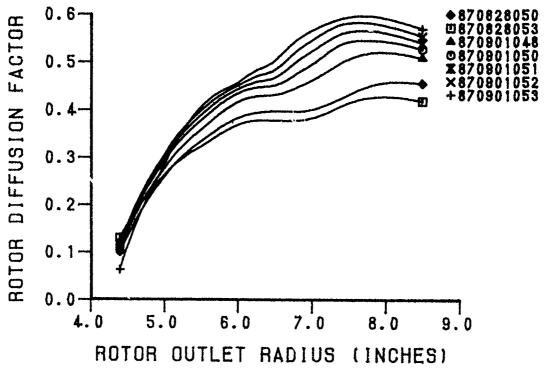


Figure 130. Rotor Diffusion Factor (40% N)

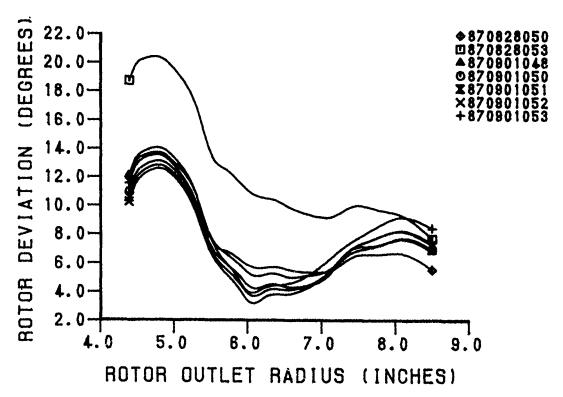


Figure 131. Rotor Deviation Angle (40% N)

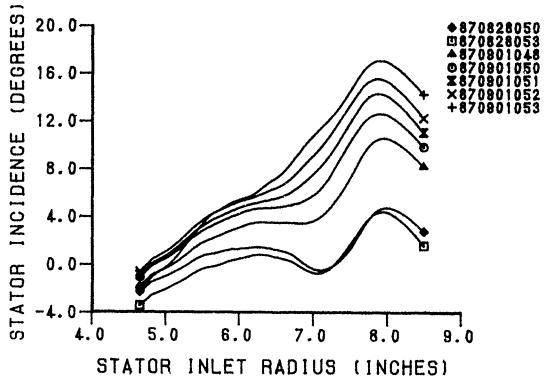


Figure 132. Stator Incidence Angle (40% N)

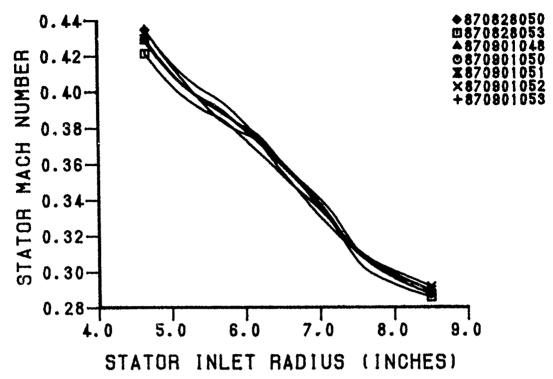


Figure 133. Stator Absolute Inlet Mach Number (40% N)

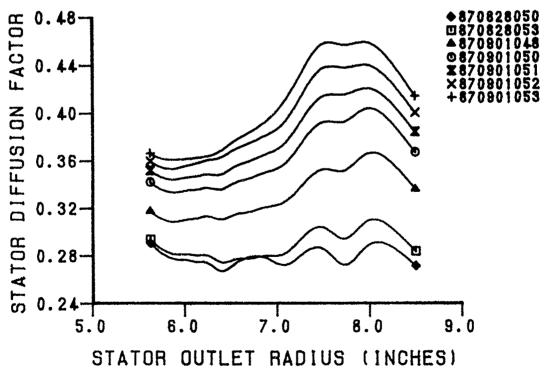


Figure 134. Stator Diffusion Factor (40% N)

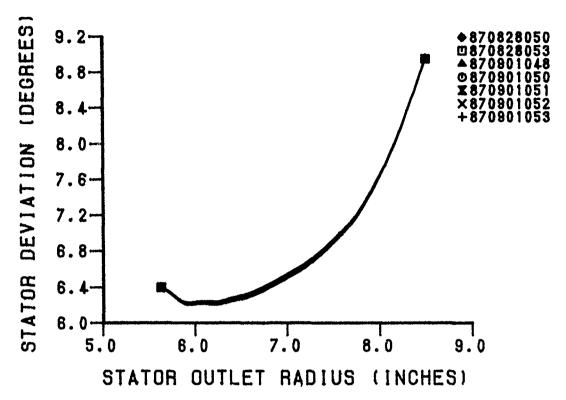


Figure 135. Stator Deviation Angle (40% N)

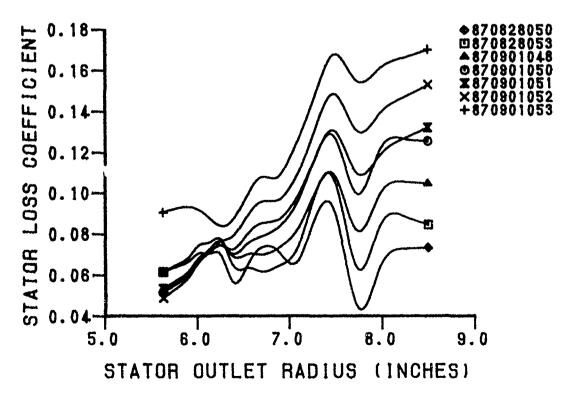
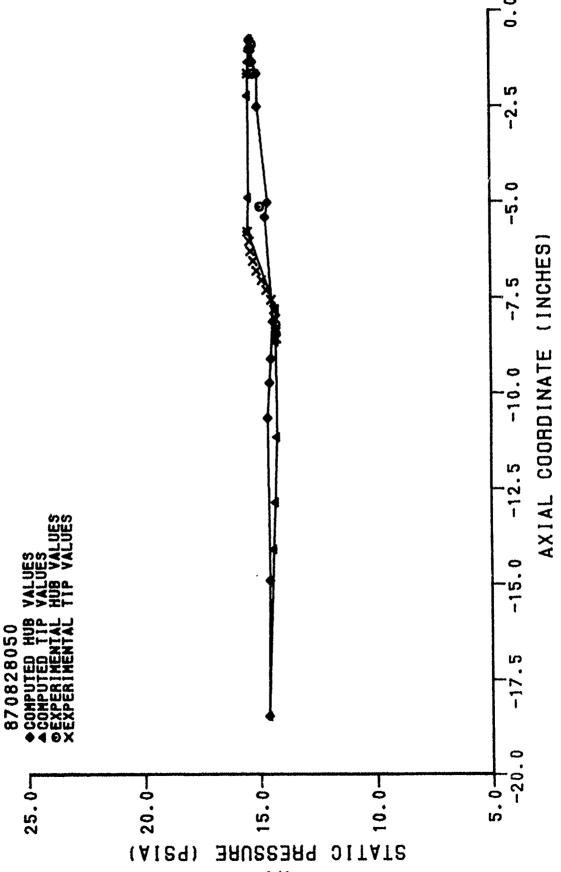
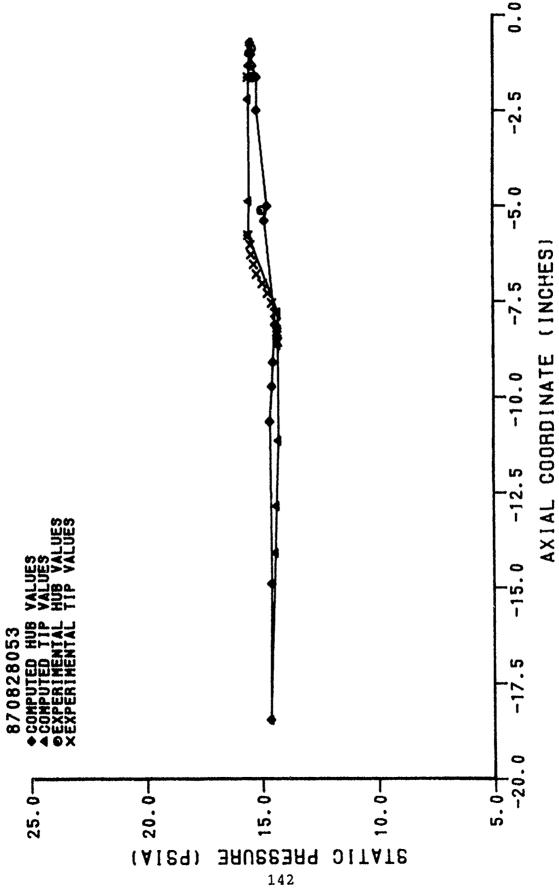


Figure 136. Stator Loss Coefficient (40% N)



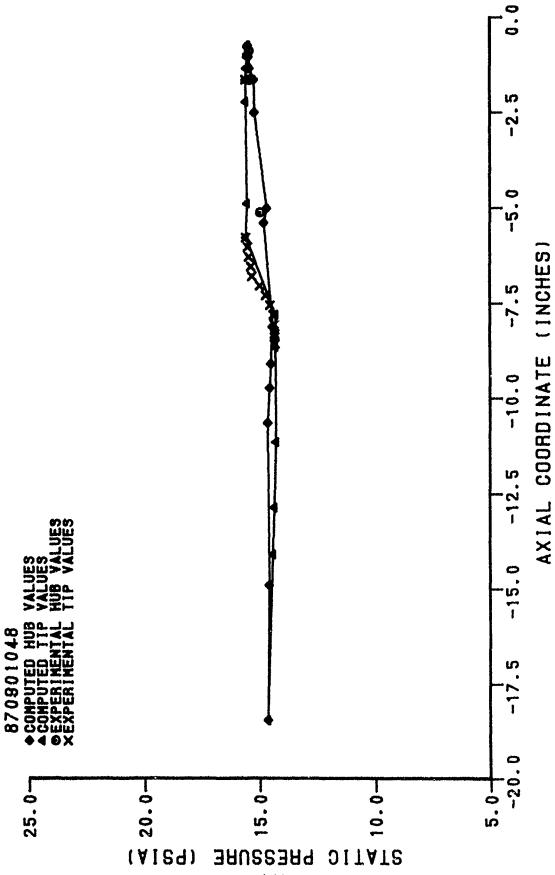
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Figure 137. Static Pressure Distribution (870828050)



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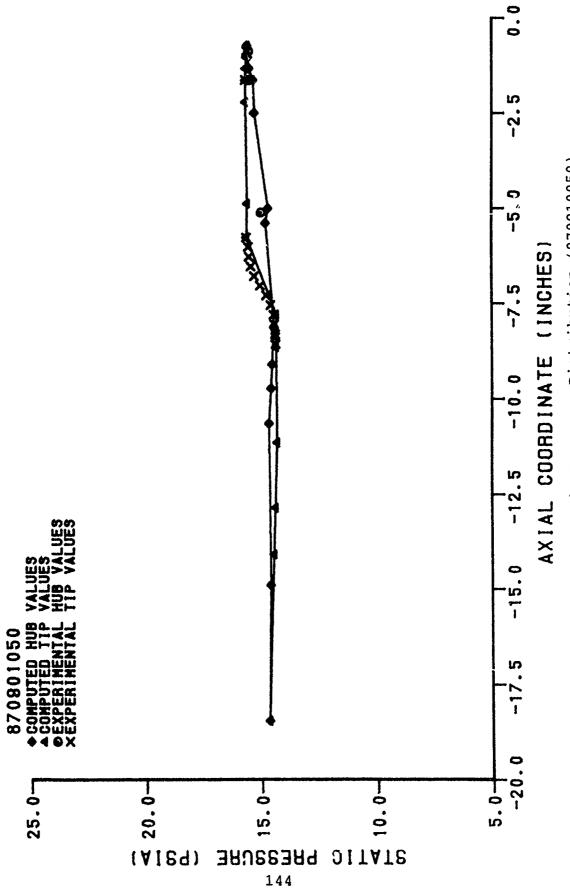
Static Pressure Distribution (870828053) Figure 138.



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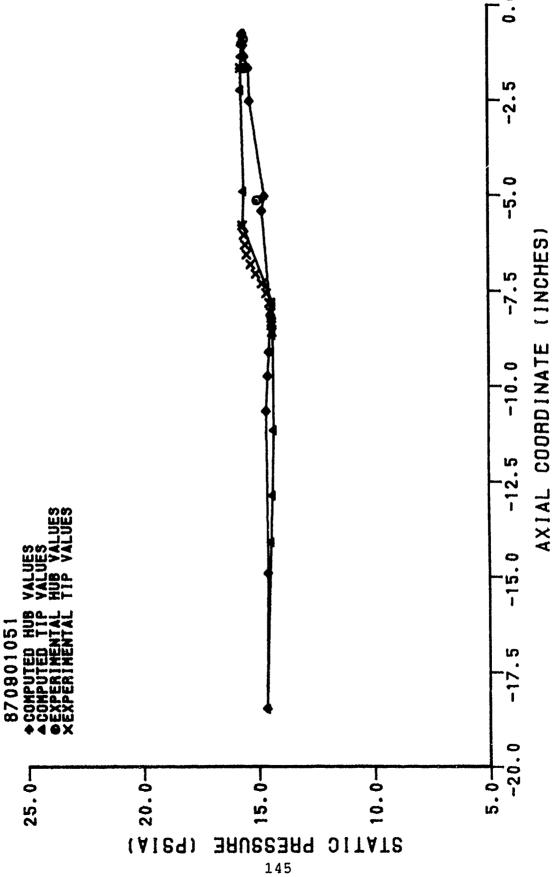
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Figure 139. Static Pressure Distribution (870901048)



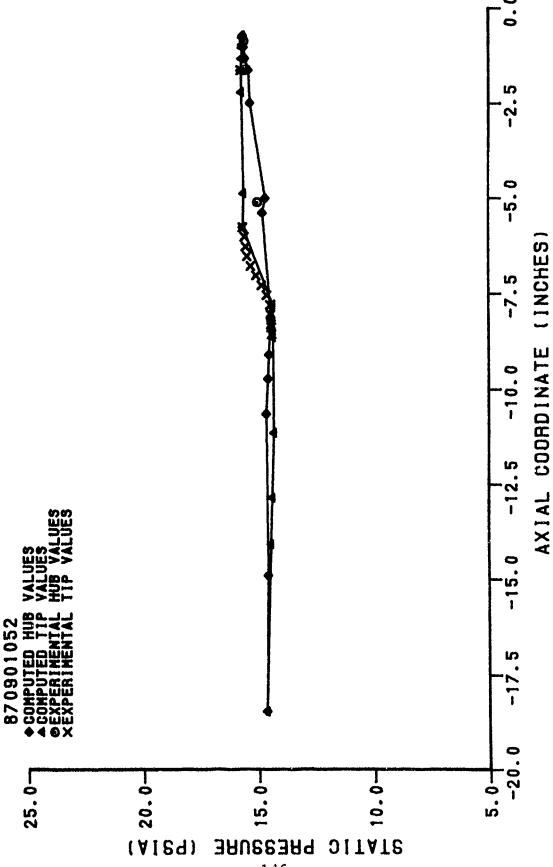
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Figure 140. Static Pressure Distribution (870910050)



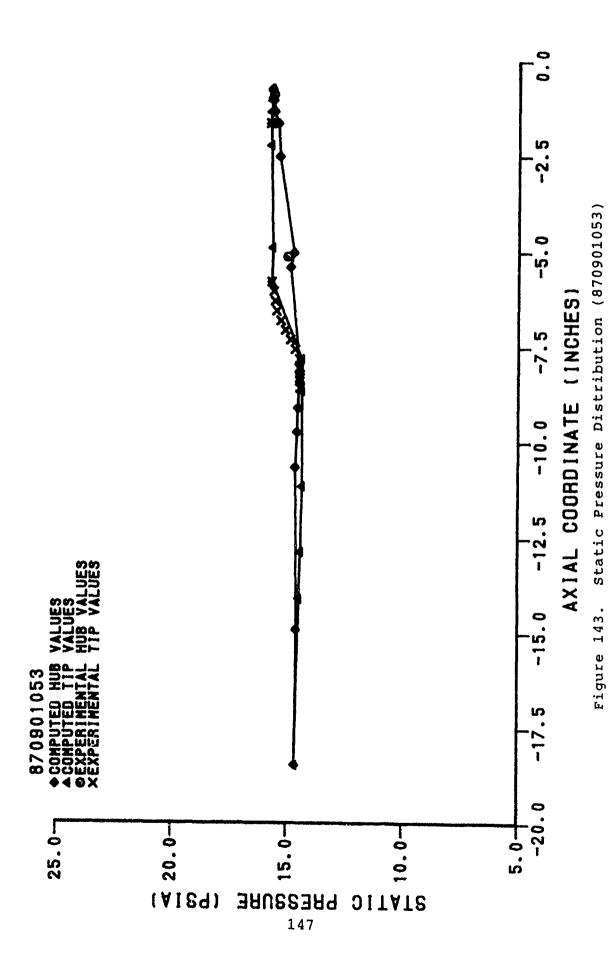
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Static Pressure Distribution (870901051) Figure 141.



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Figure 142. Static Pressure Distribution (870901052)



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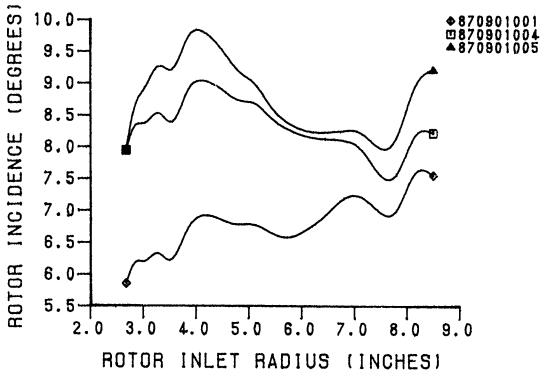


Figure 144. Rotor Incidence Angle (Thru-Blade)

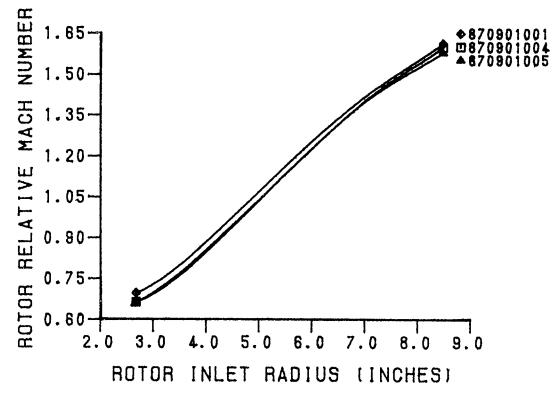
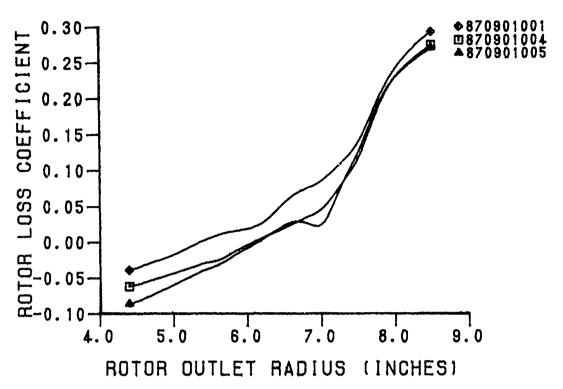


Figure 145. Rotor Relative Inlet Mach Number (Thru-Blade)



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Figure 146. Rotor Loss Coefficient (Thru-Blade)

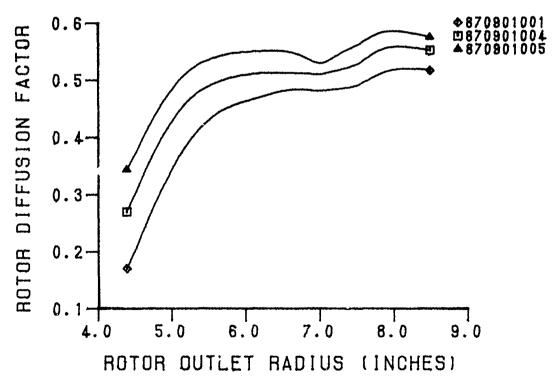


Figure 147. Rotor Diffusion Factor (Thru-Blade)

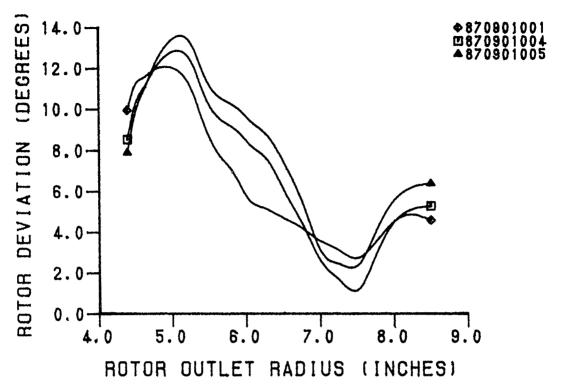


Figure 148. Rotor Deviation Angle (Thru-Blade)

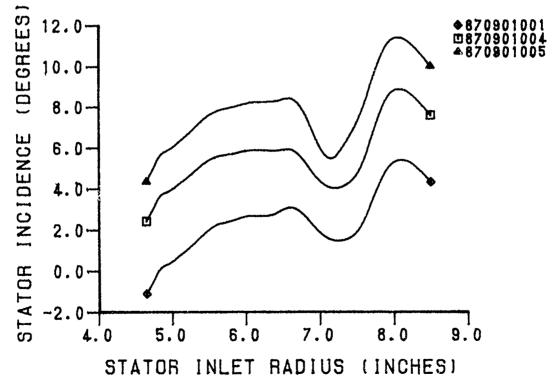


Figure 149. Stator Incidence Angle (Thru-Blade;

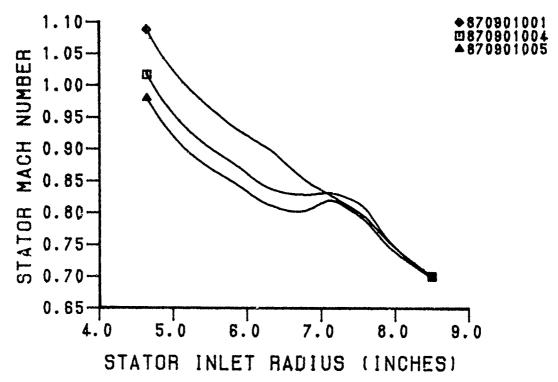


Figure 150. Stator Absolute Inlet Mach Number (Thru-Blade)

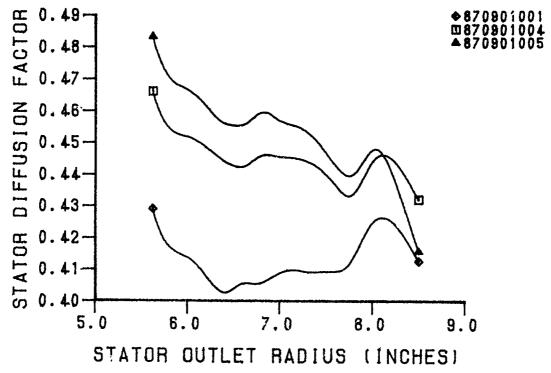


Figure 151. Stator Diffusion Factor (Thru-Blade)

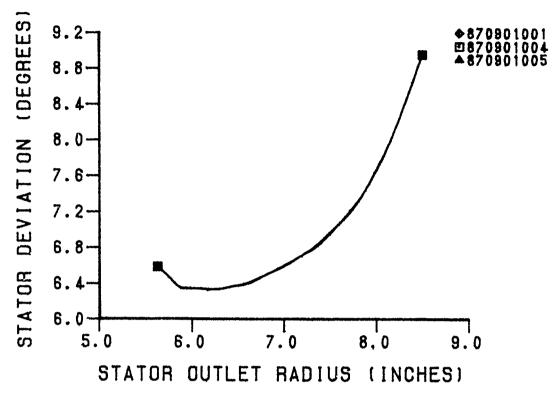


Figure 152. Stator Deviation Angle (Thru-Blade)

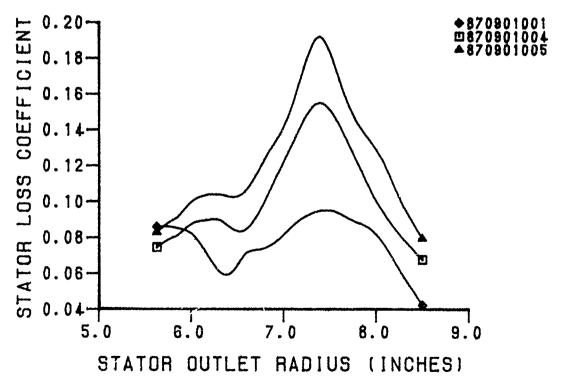


Figure 153. Stator Loss Coefficient (Thru-Blade)

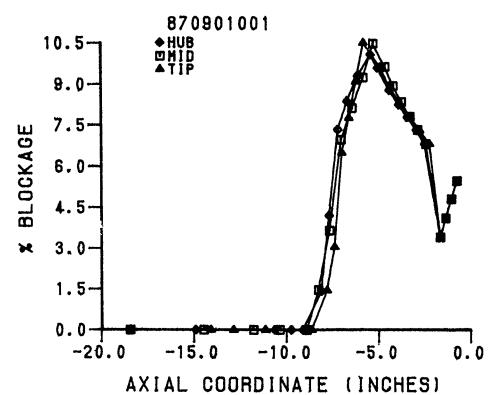


Figure 154. Wake/Bloundary Layer Blockage Distribution (Thru-Blade/870901001)

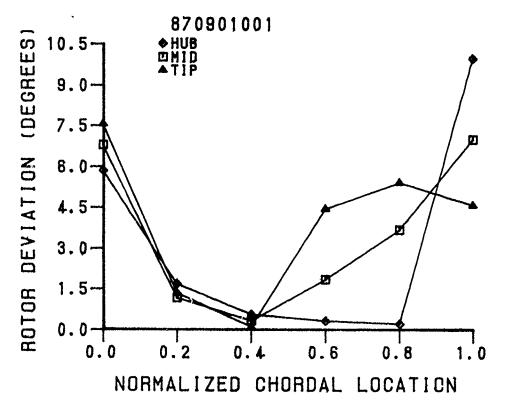


Figure 155. Chordal Distribution of Deviation (Thru-Blade/870901001)

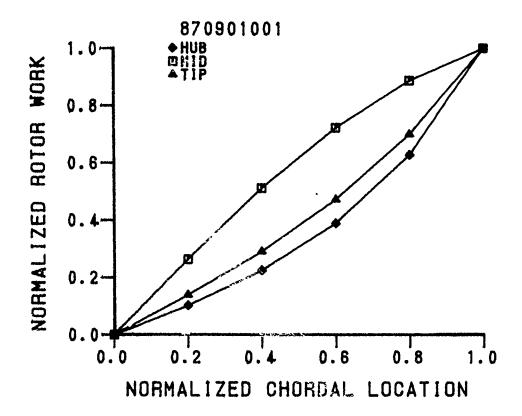
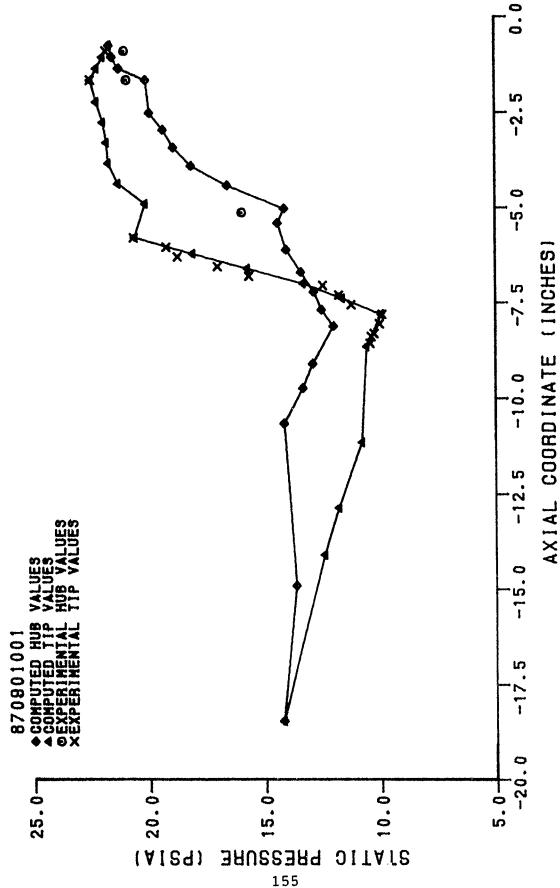


Figure 156. Chordal Distribution of Work (Thru-Blade/870901001)



Static Pressure Distribution (Thru-Blade/870901001) Figure 157.

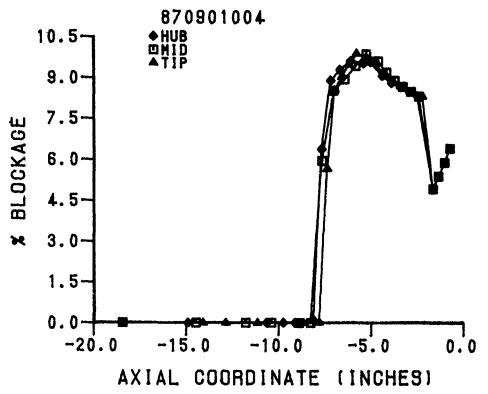


Figure 158. Wake/Bloundary Layer Blockage Distribution (Thru-Blade/870901004)

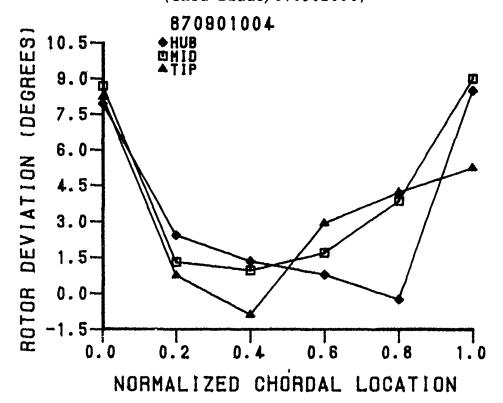


Figure 159. Chordal Distribution of Deviation (Thru-Blade/870901004)

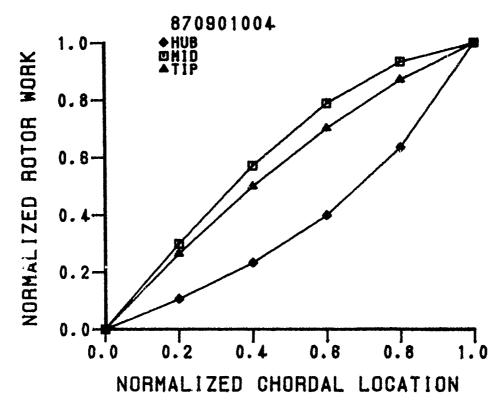


Figure 160. Chordal Distribution of Work (Thru-Blade/870901004)

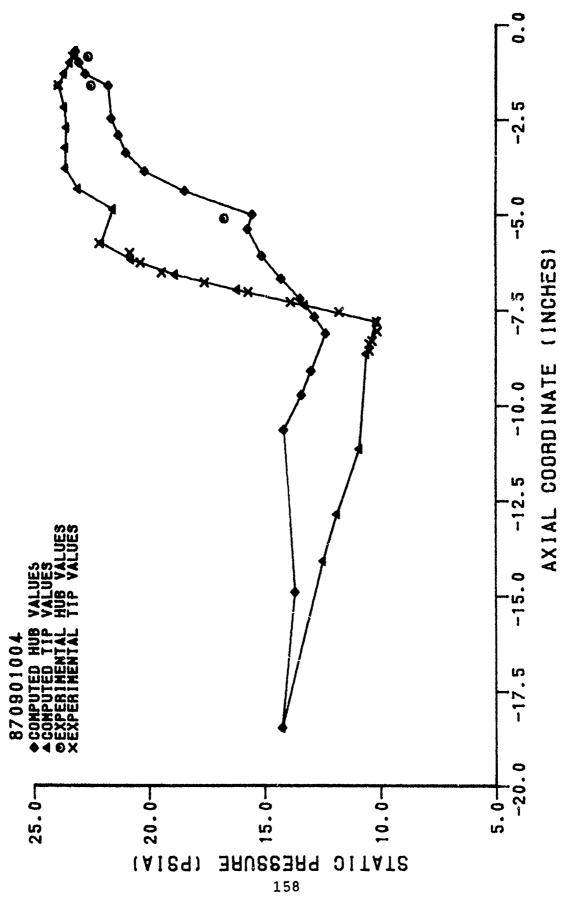


Figure 161. Static Pressure Distribution (Thru-Blade/870901004)

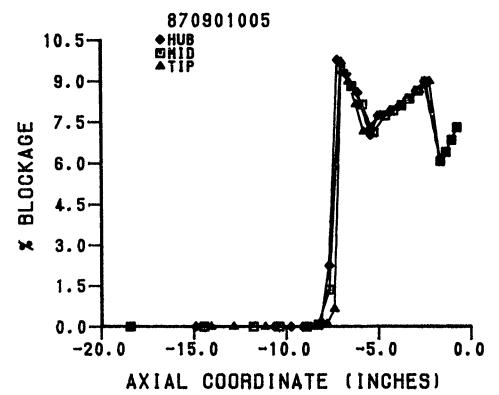


Figure 162. Wake/Bloundary Layer Blockage Distribution (Thru-Blade/870901005)

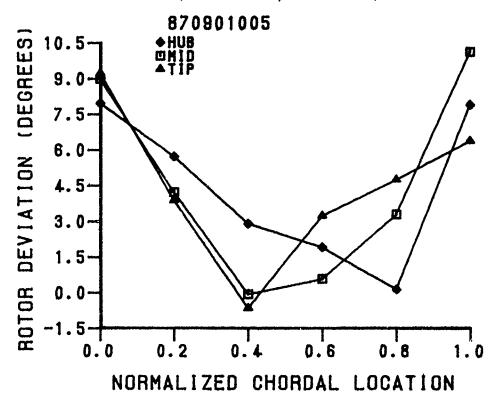


Figure 163. Chordal Distribution of Deviation (Thru-Blade/870901005)

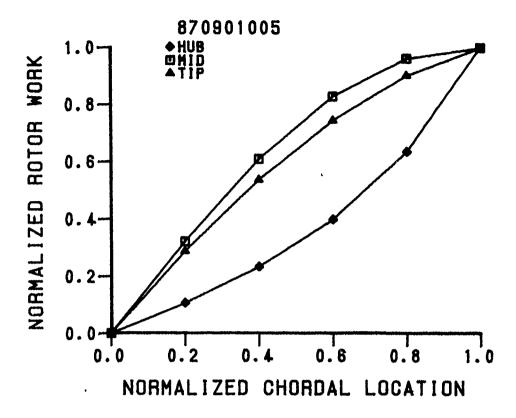
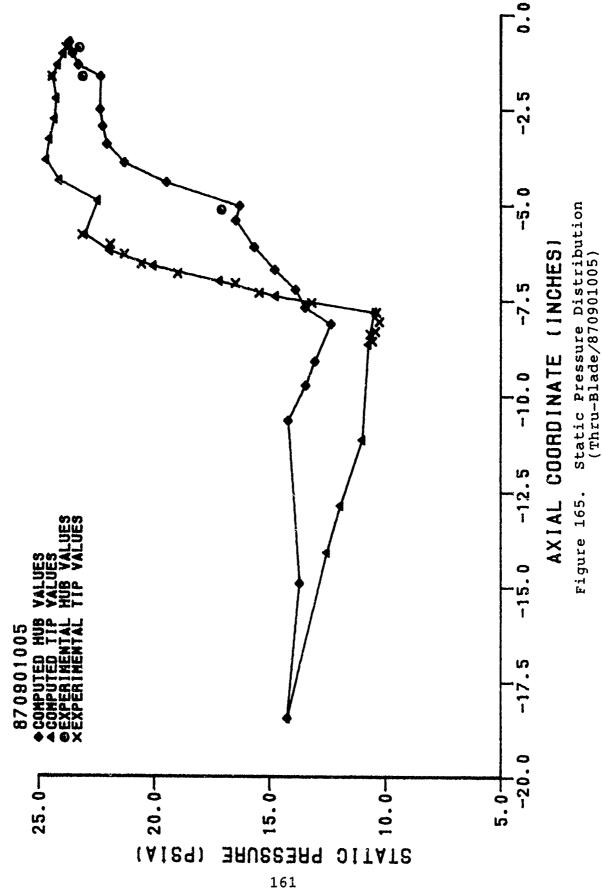


Figure 164. Chordal Distribution of Work (Thru-Blade/870901005)



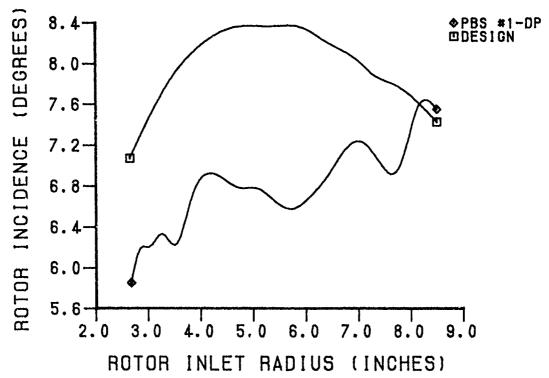


Figure 166. Comparison of Rotor Incidence Design and Experimental Distributions

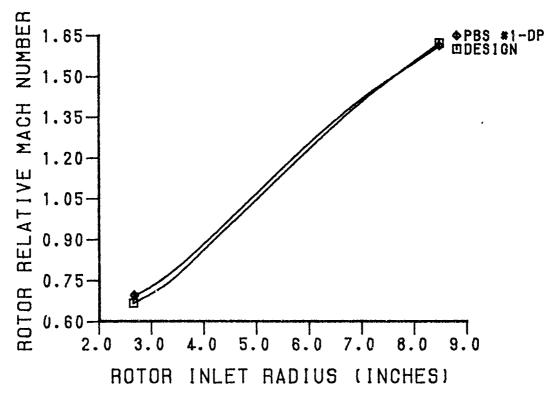


Figure 167. Comparison of Rotor Relative Inlet Mach Number Design and Experimental Distributions

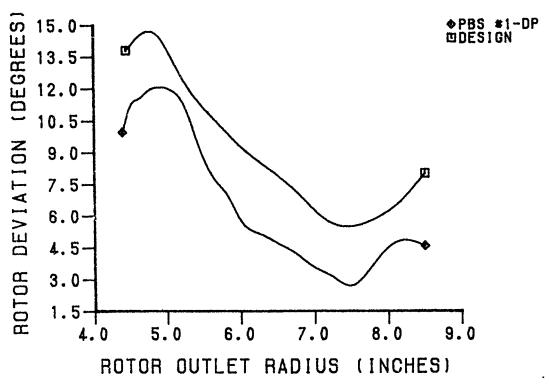


Figure 168. Comparison of Rotor Deviation Design and Experimental Distributions

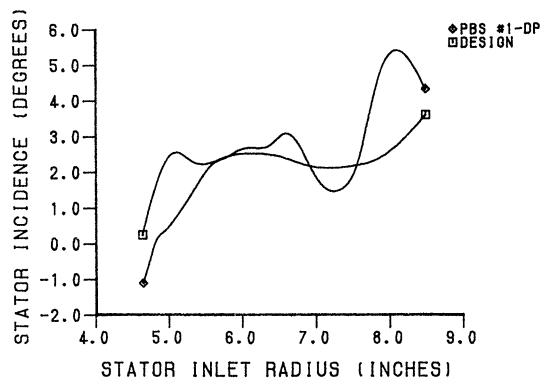


Figure 169. Comparison of Stator Incidence Design and Experimental Distributions

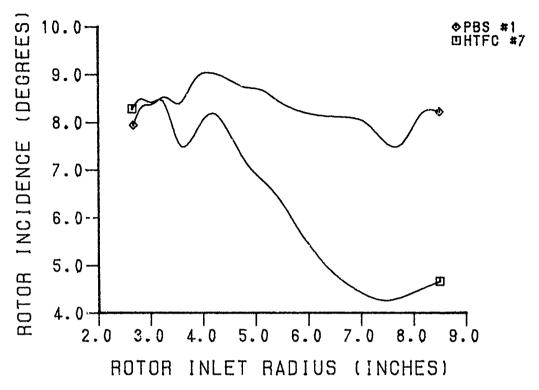


Figure 170. Rotor Incidence Angle (PBS #1 and Baseline)

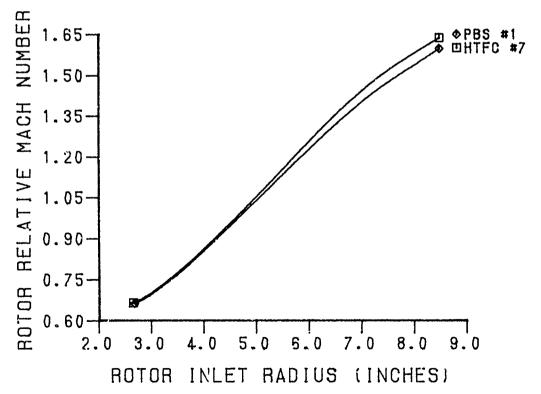


Figure 171. Rotor Relative Inlet Mach Number (PBS #1 and Baseline)

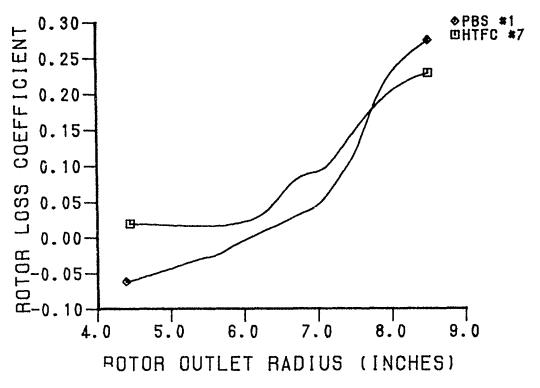


Figure 172. Rotor Loss Coefficient (PBS #1 and Baseline)

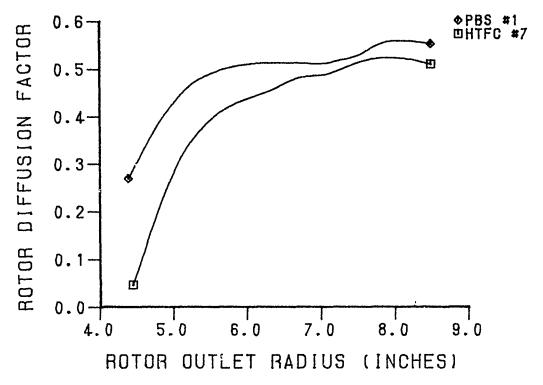


Figure 173. Rotor Diffusion Factor (PBS #1 and Baseline)

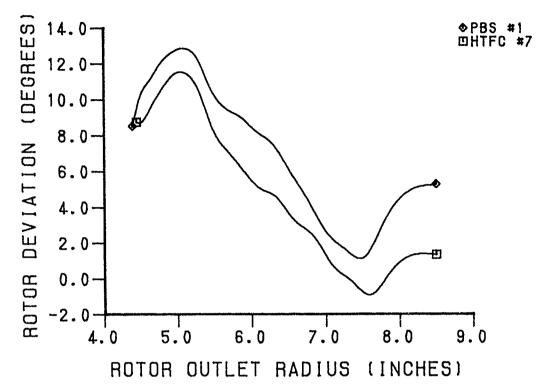


Figure 174. Rotor Deviation Angle (PBS #1 and Baseline)

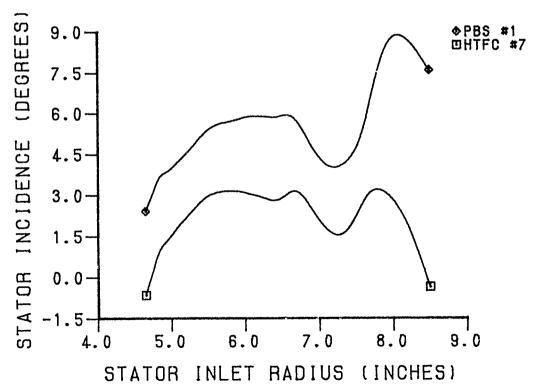


Figure 175. Stator Incidence Angl (PBS #1 and Baseline)

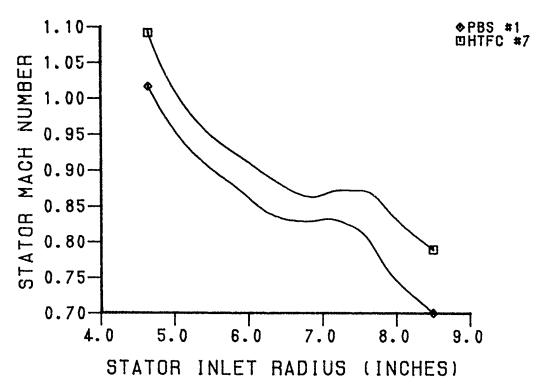


Figure 176. Stator Absolute Inlet Mach Number (PBS #1 and Baseline)

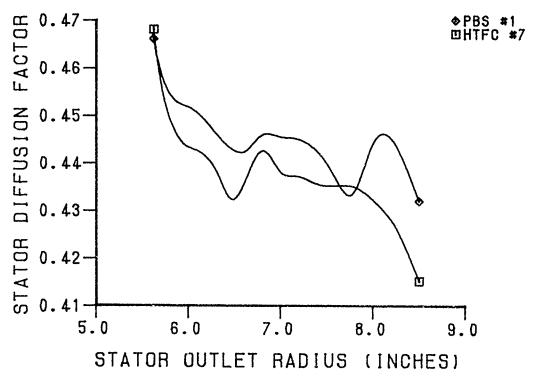


Figure 177. Stator Diffusion Factor (PBS #1 and Baseline)

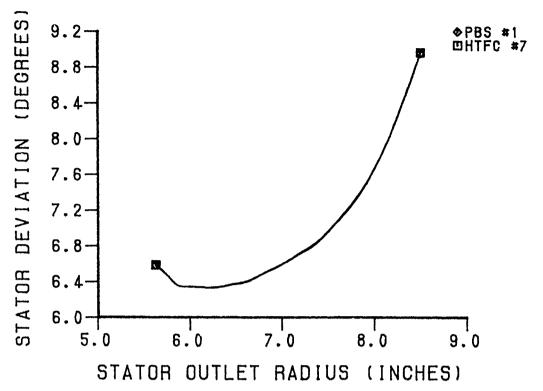


Figure 178. Stator Deviation Angle (PBS #1 and Baseline)

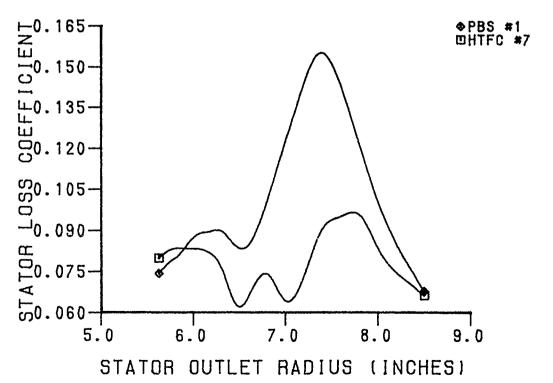


Figure 179. Stator Loss Coefficient (PBS #1 and Baseline)

APPENDIX A

عيرة وزي رهيك در مروي ماين هذا كم يعلى هذه خاري و المراز و مناه المراز و المراز و المراز و المراز و المراز و ا

SELECTED OUTPUTS FROM THE PHASE I ANALYSIS

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COMPRESSOR CONFIGURATION: PBS
                                 SCAN:
                                       1
                                                  TEST ID:870828002
NOMINAL % DESIGN SPEED: 100
                                 THROTTLE:002
PERFORMANCE:
MEAS. WORK =1698.77 ISEN. EFFIC.= 82.611 POLYTROPIC EFFIC.=84.055
MEAS. FLOWR.= 40.420 CORR. FLOWR.= 60.906 COMPUTED FLOWRATE=59.030
MEASURED RPM=20708.0 CORR. RPM =20198.7 % DESIGN RPM
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
D.P. TEMP. =449.877 P. COR. FAC. = 1.470 TEMP. COR. FACT. = .951
ATMOS. PRES. = 14.276 ATM.PRES.(S) = 14.276 REL. HUMIDITY
                                                               .023
CALIBRATION PRESSURES (SONIX) = 9.0000 14.2758 29.2757
VENTURI PRESSURES:
   INLET (AVG=11.156, SONIX=11.156) = 11.156
                                            11.151
                                                    11.162
                                                            11.155
   THROAT (AVG= 9.883, SONIX= 9.883)=
                                             9.876
                                     9.878
                                                      9.878
                                                              9.876
                                      9.886
                                              9.885
                                                      9.885
                                                              9.885
                                      9.887
                                              9.887
                                                      9.887
                                                              9.886
PLENUM CONDITIONS:
   PRESSURES (AVG= 9.997, SONIX= 9.997)=
                                            9.999
                                                    9.996
   TEMPERATURES (AVG=545.19)= 544.77 545.62 544.47 545.06 546.35
                              546.20 544.47 544.39 545.41
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
           = 8.125 7.750
                              7.375 7.000 6.625
                                                  6.250
                5.500
                       5.125
             = 26.076 26.888 26.570 ***** 28.321 ***** 29.567
   PRESSURE
                29.475 29.091
                       7.750
                              7.375 7.000 6.625 6.250
               8.125
   RADIUS
                       5.125
                 5.500
   TEMPERATURE= 666.02 639.60 ***** 642.58 645.35 ***** *****
                636.25 641.61
STATIC PRESSURES (CORRECTED):
 ----CASING----
                ----HUB-----
                 X
           P
  X
                           P
 -8.571
                -5.125
        10.412
                        15.308
 -8.400
         10.342
                -5.125
                        15.111
         10.403
 -8.400
                -5.125
                        15.591
 -8.400
         10.359
                -5.125
                        15.148
 -8.400
         10.313
                -1.650
                        19.095
 -8.318
        10.258
                -1.650
                        19.552
 -8.065
         9.991
                -1.650
                        19.528
 -7.811
          9.825
                -1.650
                        18.537
 -7.558
         11.000
                 -.900
                        18.866
 -7.304
        *****
                 -.900
                        19.459
        11.309
 -7.051
                -.900
                        19.641
 -6.798
        ****
                 -.900
                        19.109
 -6.544
        15.321
 -6.291
         17.250
 -6.037
         18.085
 -5.784
         19.625
 -1.650
         20.843
 -1.650
         21.310
 -1.650
         21.225
 -1.650
        20.641
  -.900
        20.112
  -.900
        20.661
  -.900
        20.394
  -.900
        19.734
```

PROBE RAKE RADIUS S.996 0.00 634.076 26.759 1 2 5.996 1.16 629.701 25.136 1 3 5.996 2.32 627.251 26.113 1 4 5.996 3.48 632.222 28.409 1 5 5.996 4.65 630.644 29.363 1 6 5.996 6.97 632.083 29.629 1 8 5.996 8.13 633.289 29.600 1 8 5.996 8.13 633.289 29.600 1 8 5.996 8.13 633.289 29.600 1 1 0 5.996 10.45 634.468 28.058 1 AVG 632.017 28.384 22 2 2 6.387 0.00 633.092 26.820 2 2 2 2 6.387 2.32 634.468 29.9053 2 2 2 2 2 6.387 2.32 634.908 29.953 2 2 2 2 2 6.387 2.32 634.908 29.327 2 4 6.387 3.48 636.461 29.414 2 2 5 6.387 3.48 636.461 29.414 2 2 5 6.387 3.48 636.461 29.414 2 2 5 6.387 6.97 635.870 29.623 2 2 2 2 6 6.387 5.81 637.252 29.610 2 7 6.387 6.97 635.870 29.623 2 2 2 2 6 6.387 5.81 637.252 29.610 2 2 7 6.387 6.97 635.870 29.733 2 2 2 2 2 6 6.387 5.81 637.252 29.610 2 2 2 3 3 3 6.755 2 3 6.35.730 2 2 2 2 3 3 3 4 6.755 3 4 6 635.730 2 2 7 7 7 2 4 4 4 7 7 7 7 7 7 7			NDITIONS	(CORREC	CTED):			
1 1 5.996 0.00 634.076 26.759 1 2 5.996 1.16 629.701 25.136 1 3 5.996 2.32 627.251 26.113 1 4 5.996 3.48 632.222 28.409 1 5 5.996 4.65 630.644 29.363 1 6 5.996 5.81 631.947 29.593 1 7 5.996 6.97 632.083 29.629 1 8 5.996 8.13 633.289 29.600 1 9 5.996 9.29 633.560 29.730 1 10 5.996 10.45 634.468 28.058 1 AVG 2 1 6.387 0.00 633.092 26.820 2 2 6.387 1.16 631.403 29.053 2 3 6.387 2.32 634.908 29.327 2 4 6.387 3.48 636.461 29.414 2 5 6.387 4.65 637.249 29.385 2 6 6.387 4.65 637.249 29.385 2 6 6.387 5.81 637.252 29.610 2 7 6.387 6.97 635.870 29.623 2 8 6.387 8.13 635.730 29.730 2 9 6.387 9.29 635.836 29.763 2 9 6.387 9.29 635.836 29.763 2 9 6.387 10.45 637.861 27.972 2 AVG 3 1 6.755 0.00 631.489 27.214 3 1 6.755 3.48 636.491 29.112 3 1 6.755 3.48 638.717 28.847 3 5 6.755 2.32 634.295 28.580 3 4 6.755 3.48 638.717 28.847 3 5 6.755 5.81 641.622 29.233 3 6.755 5.81 641.622 29.233 3 6.755 9.29 637.898 30.037 3 6.755 8.13 640.191 29.734 3 9 6.755 8.13 640.191 29.734 3 9 6.755 8.13 640.191 29.734 3 9 6.755 9.29 637.898 30.037 3 AVG 4 1 7.104 0.00 631.254 26.579 4 2 7.104 1.16 630.618 27.361 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.438 4 6 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 9 7.104 9.29 637.853 29.013	PROBE	RAKE		ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
1 3 5.996 2.32 627.251 26.113 1 4 5.996 3.48 632.222 28.409 1 5 5.996 4.65 630.644 29.363 1 6 5.996 5.81 631.947 29.593 1 7 5.996 6.97 632.083 29.629 1 8 5.996 8.13 633.289 29.600 1 9 5.996 10.45 634.468 28.058 1 10 5.996 10.45 634.468 28.058 1 AVG 2 1 6.387 0.00 633.092 26.820 2 2 6.387 1.16 631.403 29.053 2 3 6.387 2.32 634.908 29.327 2 4 6.387 3.48 636.461 29.414 2 5 6.387 4.65 637.252 29.610 2 7 6.387 5.81 637.252 29.610 2 7 6.387 8.13 635.870 29.623 2 8 6.387 8.13 635.870 29.623 2 9 6.387 9.29 635.836 29.763 2 10 6.387 10.45 637.861 27.972 2 AVG 3 1 6.755 0.00 631.489 27.214 3 2 6.755 1.16 632.131 28.448 3 3 3 6.755 2.32 634.95 29.723 3 4 6.755 3.48 638.717 28.847 3 5 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 4 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 8 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 8 6.755 5.81 641.622 29.233 3 7 6.755 9.29 637.898 30.037 3 10 6.755 9.29 637.898 30.037 3 10 6.755 9.29 637.898 30.037 3 10 6.755 10.45 640.323 27.572 3 AVG 4 1 7.104 0.00 631.254 26.579 4 2 7.104 1.16 630.618 27.341 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.995 27.425 4 5 7.104 4.65 634.593 27.425 4 5 7.104 1.16 630.618 27.361 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 9 7.104 9.29 637.853 29.013			5.996	0.00	634.076	26.759		
1 3 5.996 2.32 627.251 26.113 1 4 5.996 3.48 632.222 28.409 1 5 5.996 4.65 630.644 29.363 1 6 5.996 5.81 631.947 29.593 1 7 5.996 6.97 632.083 29.629 1 8 5.996 8.13 633.289 29.600 1 9 5.996 9.29 633.560 29.730 1 10 5.996 10.45 634.468 28.058 1 AVG 2 1 6.387 0.00 633.092 26.820 2 2 6.387 1.16 631.403 29.053 2 3 6.387 2.32 634.908 29.327 2 4 6.387 3.48 636.461 29.414 2 5 6.387 4.65 637.252 29.610 2 7 6.387 5.81 637.252 29.610 2 7 6.387 8.13 635.870 29.623 2 8 6.387 8.13 635.870 29.623 2 9 6.387 9.29 635.836 29.763 2 10 6.387 10.45 637.861 27.972 2 AVG 3 1 6.755 0.00 631.489 27.214 3 2 6.755 1.16 632.131 28.448 3 3 3 6.755 2.32 634.95 29.723 3 4 6.755 3.48 638.717 28.847 3 5 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 4 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 8 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 8 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 8 6.755 9.29 637.898 30.037 3 10 6.755 9.29 637.898 30.037 3 10 6.755 10.45 640.323 27.572 3 AVG 4 1 7.104 0.00 631.254 26.579 4 2 7.104 1.16 630.618 27.361 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013	1	2	5.996	1.16	629.701	25.136		
1	1	3	5.996	2.32				
1 5 5.996 4.65 630.644 29.363 1 6 5.996 5.81 631.947 29.593 1 8 5.996 8.13 633.289 29.600 1 9 5.996 9.29 633.560 29.730 1 10 5.996 10.45 634.468 28.058 1 AVG 632.017 28.384 2 1 6.387 0.00 633.092 26.820 2 2 6.387 1.16 631.403 29.053 2 3 6.387 2.32 634.908 29.327 2 4 6.387 3.48 636.461 29.414 2 5 6.387 4.65 637.249 29.385 2 6 6.387 5.81 637.252 29.610 2 7 6.387 6.97 635.870 29.623 2 8 6.387 8.13 635.730 29.730 2 9 6.387 9.29 635.836 29.763 2 10 6.387 10.45 637.861 27.972 2 AVG 635.591 29.112 3 1 6.755 0.00 631.489 27.214 3 2 6.755 1.16 632.131 28.448 3 3 6.755 2.32 634.295 28.580 3 4 6.755 3.48 638.717 28.847 3 5 6.755 5.81 641.622 29.233 3 7 6.755 5.81 641.622 29.233 3 7 6.755 5.81 641.622 29.233 3 7 6.755 5.81 641.622 29.233 3 7 6.755 5.81 641.622 29.233 3 7 6.755 5.81 641.622 29.233 3 7 6.755 5.81 641.622 29.233 3 7 6.755 6.97 638.708 29.503 3 8 6.755 9.29 637.898 30.037 3 10 6.755 10.45 640.323 27.572 3 AVG 637.651 28.843 4 1 7.104 0.00 631.254 26.579 4 2 7.104 1.16 630.618 27.361 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.425 4 5 7.104 4.65 634.593 27.425 4 6 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 9 7.104 9.29 637.853 29.013	1	4						
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3 AVG 637.651 28.843 4 1 7.104 0.00 631.254 26.579 4 2 7.104 1.16 630.618 27.361 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614	3							
4 1 7.104 0.00 631.254 26.579 4 2 7.104 1.16 630.618 27.361 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614	3		0.755	10.43				
4 2 7.104 1.16 630.618 27.361 4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614			7 104	0 00				
4 3 7.104 2.32 630.706 27.449 4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614						20.5/9		
4 4 7.104 3.48 634.985 27.425 4 5 7.104 4.65 634.593 27.438 4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614	4.	2						
4 5 7.104 4.65 634.593 27.438 4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614								
4 6 7.104 5.81 634.470 27.603 4 7 7.104 6.97 635.021 27.779 4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614	-	-						
4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614		2						
4 8 7.104 8.13 636.439 28.223 4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614		5						
4 9 7.104 9.29 637.853 29.013 4 10 7.104 10.45 641.985 26.614								
4 10 7.104 10.45 641.985 26.614								
•								
4 AVG 634.804 27.576			7.104	10.45				
	4	AVG			634.804	27.576		

				_			
		NDITIONS					
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
5555555556	1 2	7.437	0.00	633.483	25.968		
5 E	2	7.437	1.16	632.359	27.193		
5	3 4	7.437 7.437	2.32	632.252	27.433 27.303		
5 5	4. E	7.437	3.48 4.65	636.203 636.758	27.303 27.466		
5	5 6	7.437	5.81	638.395	27.400		
5	7	7.437	6.97	637.860	27.522		
5	8	7.437	8.13	640.049	27.931		
5	ğ	7.437	9.29	638.588	28.237		
5	10	7.437	10.45	641.910	26.423		
5	AVG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		636.806	27.331		
6	1	7.756	0.00	642.384	25.332		
6	2	7.756	1.16	634.305	26.885		
6	3	7.756	2.32	635.967	27.075		
6	4	7.756	3.48	639.399	27.277		
6 6 6 6	5 6	7.756	4.65	641.608	27.207		
6	6	7.756	5.81	643.416	27.417		
6	7	7.756	6.97	644.753	27.205		
6	8	7.756	8.13	647.662	27.372		
6	9	7.756	9.29	646.949	27.464		
6	10	7.756	10.45	649.717	25.911		
6 7	AVG	0 062	0 00	642.573	26.948		
7	1 2	8.062 8.062	$0.00 \\ 1.16$	655.291 642.828	24.776		
7	3	8.062	2.32	642.203	26.363 27.075		
7	4	8.062	3.48	645.577	26.640		
ŕ	, i	8.062	4.65	649.080	26.519		
ż	5 6	8.062	5.81	651.807	26.760		
ż	7	8.062	6.97	654.832	26.276		
7	8	8.062	8.13	658.349	26.621		
7	9	8.062	9.29	657.855	26.721		
7	10	8.062	10.45	662.495	25.458		
7	AVG			651.833	26.358		
8	1	8.356	0.00	661.793	25.233		
8	2	8.356	1.16	649.884	26.119		
8	3	8.356	2.32	652.073	27.075		
8	4	8.356	3.48	655.588	26.083		
8	5 6	8.356	4.65	658.764	25.889		
8	6	8.356	5.81	662.448	26.390		
8 8	7	8.356	6.97	665.766	25.993		
8	8 9	8.356	8.13	668.283	26.310		
8	10	8.356 8.356	9.29 10.45	669.420	26.524		
8	AVG	0.335	10.45	670.561 661.358	25.710		
O	AVG			001.338	26.151		

```
COMPRESSOR CONFIGURATION: PBS
                                   SCAN: 1
                                                    TEST ID:870901001
NOMINAL % DESIGN SPEED:100
                                   THROTTLE: 025
PERFORMANCE:
MEAS. WORK =1729.44
                     ISEN. EFFIC. = 83.834
                                            POLYTROPIC EFFIC.=85.255
MEAS. FLOWR. = 38.586 CORR. FLOWR. = 60.781
                                             COMPUTED FLOWRATE=59.047
                                  =20187.9
MEASURED RPM=20810.0 CORR. RPM
                                             % DESIGN RPM
                                                               = 99.83
                     GAS CONSTANT= 53.351
                                             PRESSURE RATIO
SPEC. HEAT
           = 1.400
                                                               = 1.930
            =450.393
D.P. TEMP.
                      P. COR. FAC.= 1.528
                                             TEMP. COR. FACT. =
                                                                 .941
                      ATM.PRES.(S) = 14.332
ATMOS. PRES. = 14.332
                                             REL. HUMIDITY
                                                                  .019
                                9.0011 14.3318 29.3390
CALIBRATION PRESSURES (SONIX)=
VENTURI PRESSURES:
   INLET (AVG=10.735, SONIX=10.732) = 10.731
                                               10.733
                                                       10.737
                                                                10.737
   THROAT (AVG= 9.509, SONIX= 9.508)=
                                        9.508
                                                9.500
                                                         9.508
                                                                 9.500
                                                9.511
                                                         9.512
                                        9.512
                                                                 9.512
                                        9.511
                                                9.511
                                                         9.513
                                                                 9.512
PLENUM CONDITIONS:
                (AVG = 9.616, SONIX = 9.599) =
                                              9.617
   PRESSURES
                                                       9.614
   TEMPERATURES (AVG=551.17) = 550.28 551.41 550.42 551.27 552.40
                               552.40 550.86 550.57 550.89
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                                7.375
                 8.125
                        7.750
                                      7.000
                                             6.625
                                                     6.250
   RADIUS
                                                             5.875
                 5.500
                         5.125
              = 27.945 28.126 28.318 ***** 29.338 ***** 29.666
   PRESSURE
                29.611 29.339
                         7.750
   RADIUS
                 8.125
                                7.375
                                      7.000 6.625
                                                     6.250
                 5.500
                         5.125
   TEMPERATURE= 674.08 637.87 ***** 640.03 652.17 ***** *****
                635.72 645.59
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB----
   X
            P
                    X
                             P
                          15.960
 -8.571
         10.426
                 -5.125
 -8.400
                 -5.125
         10.348
                          15.804
 -8.400
         10.436
                 -5.125
                         16.240
         10.383
 -8.400
                 -5.125
                         15.795
         10.327
                 -1.650
                         20.878
 -8.400
 -8.318
         10.259
                 -1.650
                          21.201
         10.018
                 -1.650
                          21.194
 -8.065
 -7.811
          9.909
                 -1.650
                          20.374
                  -.900
 -7.558
                          20.637
         11.249
                  -.900
                          21.294
 -7.304
         ****
                  -.900
 -7.051
         12.465
                          21.282
 -6.798
         ****
                  -.900
                          20.850
         17.013
 -6.544
 -6.291
         18.745
 -6.037
         19.233
 -5.784
         20.625
 -1.650
         22.309
 -1.650
         22.728
 -1.650
         22.753
         22,096
 -1.650
  -.900
         21.684
         22.120
  -.900
  -.900
         22.034
```

21.326

increase area - Transmission in a literary and because and wastern and the control

DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS		TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	634.804	27.481	
1	2	5.996	1.16	631.169	26.283	
1	3	5.996	2.32	629.433	26.884	
1	4	5.996	3.48	634.419	28.273	
1	5	5.996	4.65	632.755	29.393	
1	5	5.996	5.81	633.946	29.656	
1	7	5.996	6.97	634.086	29.774	
1	8	5.996	8.13	634.963	29.691	
1	9	5.996	9.29	634.688	29.785	
1	10	5.996	10.45	635.583	28.497	
1	AVG			633.679	28.675	
2	1	6.387	0.00	634.919	26.989	
2	2	6.387	1.16	630.963	28.990	
2	3	6.387	2.32	634.920	29.529	
2	4	6.387	3.48	636.646	29.498	
2	5 6	6.387	4.65	637.616	29.440	
2	6	6.387	5.81	638.143	29.799	
2	7	6.387	6.97	637.887	29.696	
2 2 2 2 2 2 2 2 2 2 2	8	6.387	8.13	637.432	29.923	
2	9	6.387	9.29	637.754	29.905	
2	10	6.387	10.45	637.131	28.309	
2	AVG			636.382	29.256	
2 3 3 3 3 3 3 3 3 3	1	6.755	0.00	636.521	27.209	
3	2	6.755	1.16	636.494	29.271	
3	3	6.755	2.32	639.149	29.260	
3	4	6.755	3.48	641.057	29.213	
3	5	6.755	4.65	640.945	29.305	
3	5 6	6.755	5.81	642.306	29.654	
3	7	6.755	6.97	638.834	29.828	
3	8	6.755	8.13	641.257	30.052	
3	9	6.755	9.29	638.740	30.238	
3	10	6.755	10.45	639.560	28.280	
3	AVG			639.532	29.277	
4	1	7.104	0.00	639.139	26.718	
4	2	7.104	1.16	640.377	28.711	
4	3	7.104	2.32	639.433	28.807	
4	4	7.104	3.48	644.877	29.110	
4	5	7.104	4.65	643.768	29.008	
4	5 6	7.104	5.81	642.253	29.399	
4	7	7.104	6.97	642.932	29.066	
4	8	7.104	8.13	643.342	29.404	
4	9	7.104	9.29	642.881	29.804	
4	10	7.104	10.45	643.907	27.705	
4	AVG			642.340	28.825	
-	· -			0.3.0.0	20.025	

SCAN: 1 TEST ID:870901001 THROTTLE:025

DISCHA	RGE CO	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	645.056	26.827	
5	2	7.437	1.16	642.405	27.533	
5	3	7.437	2.32	642.249	28.618	
5	4	7.437	3.48	646.467	29.255	
5	5	7.437	4.65	644.994	29.286	
5 5 5 5 5 5	5 6	7.437	5.81	644.879	29.381	
5	7	7.437	6.97	645.464	29.045	
5	8	7.437	8.13	647.697	29.482	
5	9	7.437	9.29	646.361	29.742	
5	10	7.437	10.45	647.136	28.194	
5	ĀVG	7.457	10.45	645.312	28.792	
ő	1	7.756	0.00	654.574		
ě	2	7.756	1.16	644.390	26.538	
6	3	7.756	2.32	644.951	26.805	
6	4	7.756	3.48		28.302	
6	- T	7.756		648.131	29.129	
6	5 6		4.65	648.859	29.124	
6	7	7.756	5.81	650.609	29.484	
6	8	7.756	6.97	652.738	28.903	
6		7.756	8.13	655.592	29.240	
	9	7.756	9.29	654.676	29.354	
6	10	7.756	10.45	657.730	27.695	
6	AVG			651.238	28.536	
7	1	8.062	0.00	663.223	26.145	
7	2	8.062	1.16	650.301	27.130	
7	3	8.062	2.32	649.830	28.410	
7	4	8.062	3.48	653.364	28.307	
7	5 6	8.062	4.65	656.838	28.169	
7	6	8.062	5.81	657.886	28.663	
7	7	8.062	6.97	661.387	27.919	
7	8	8.062	8.13	666.159	28.362	
7	9	8.062	9.29	664.816	28.399	
7	10	8.062	10.45	671.328	27.131	
7	AVG			659.379	27.912	
8	1	8.356	0.00	669.326	26.586	
8	2	8.356	1.16	658.938	27.353	
8	3	8.356	2.32	661.131	28.029	
8	4	8.356	3.48	663.367	27.733	
8	5	8.356	4.65	667.304	27.570	
	6	8.356	5.81	669.212	28.097	
8 8 8	6 7	8.356	6.97	672.860	27.768	
8	8	8.356	8.13	677.213	27.942	
8	9	8.356	9.29	676.732	28.086	
8	10	8.356	10.45	679.667	27.492	
8	AVG	2.220		669.574	27.681	
•	, 5			003.374	27.001	

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COMPRESSOR CONFIGURATION: PBS
                                   SCAN: 2
                                                     TEST ID:870901003
                                   THROTTLE: 045
NOMINAL % DESIGN SPEED: 100
PERFORMANCE:
                      ISEN. EFFIC. = 84.803
                                              POLYTROPIC EFFIC. =86.189
MEAS. WORK =1717.45
                      CORR. FLOWR. = 60.450
                                              COMPUTED FLOWRATE=59.063
MEAS. FLOWR. = 36.561
                      CORR. RPM
                                                                = 99.84
MEASURED RPM=20908.0
                                  =20189.5
                                              % DESIGN RPM
               1.400
                                                                = 1.982
SPEC. HEAT
                       GAS CONSTANT= 53.351
                                              PRESSURE RATIO
            **
                                                                   .932
            =450.241
D.P. TEMP.
                       P. COR. FAC.= 1.597
                                              TEMP. COR. FACT. =
                       ATM.PRES.(S) = 14.332
                                                                   .016
ATMOS. PRES. = 14.333
                                              REL. HUMIDITY
CALIBRATION PRESSURES (SONIX) = 9.0018 14.3322 29.3378
VENTURI PRESSURES:
                                                                 10.281
   INLET (AVG=10.279, SONIX=10.277) = 10.278
                                                10.276
                                                         10.282
                                                 9.104
                                                         9.118
                                                                  9.104
   THROAT (AVG= 9.114, SONIX= 9.113)=
                                         9.118
                                                 9.115
                                                                  9.115
                                         9.115
                                                          9.116
                                         9.114
                                                 9.114
                                                          9.116
                                                                  9.115
PLENUM CONDITIONS:
                 (AVG = 9.203, SONIX = 9.194) =
                                               9.208
                                                        9.199
   PRESSURES
   TEMPERATURES (AVG=556.28)= 555.50 556.34 555.65 556.34 557.33
                                557.47 555.94 555.79 556.20
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                                              6.625
   RADIUS
                  8.125
                         7.750
                                7.375
                                       7.000
                                                       6.250
                                                              5.875
                  5.500
                         5.125
               = 29.061 29.088 29.712 ****** 30.200 ****** 29.974
   PRESSURE
                 29.691 29.612
                  8.125
                         7.750
                                7.375 7.000 6.625
                                                      6.250
                                                              5.875
   RADIUS
                  5.500
                        5.125
   TEMPERATURE= 681.11 637.97 ***** 639.81 660.35 ***** *****
                 636.17 646.30
STATIC PRESSURES (CORRECTED):
 ----CASING----
                  ----HUB----
   Х
            P
                     X
                             P
         10.443
                  -5.125
                          16.466
 -8.571
 -8.400
         10.401
                  -5.125
                          16.323
 -8.400
         10.429
                  -5.125
                          16.762
         10.433
                  -5.125
 -8.400
                          16.310
         10.390
                  -1.650
 -8.400
                          21.943
         10.320
 -8.318
                  -1.650
                          22,227
 -8.065
         10.068
                  -1.650
                          22.242
                  -1.650
                          21.453
 -7.811
         10.044
         11.499
 -7.558
                  -.900
                          21.727
                  -.900
         *****
 -7.304
                          22.365
         14.782
 -7.051
                   -.900
                          22.341
 -6.798
         *****
                   -.900
                          21.935
         18.705
 -6.544
 -6.291
         19.751
          20.169
 -6.037
 -5.784
          21.533
 -1.650
         23.259
 -1.650
         23.711
 -1.650
          23.720
 -1.650
          23.053
  -.900
         22.639
  -.900
          23.129
  -.900
          23.057
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-.900

SCAN: 2 TEST ID:870901003 THROTTLE:045

		NDITIONS				
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	634.130	28.054	
1	2	5.996	1.16	630.684	26.686	
1	3	5.996	2.32	630.451	27.691	
1	4	5.996	3.48	635.686	28.787	
1	5	5.996	4.65	633.574	29.550	
1	5 6	5.996	5.81	634.647	29.755	
1	7	5.996	6.97	635.235	29.614	
1 1	8	5.996	8.13	635.510	29.849	
1	9	5.996	9.29	635.588	30.001	
1 1	10	5.996	10.45	636.371	28.872	
1	AVG			634.305	28.967	
2	1	6.387	0.00	634.614	27.297	
2	2	6.387	1.16	631.114	28.643	
2	2 3	6.387	2.32	634.985	29.445	
$\bar{2}$	4	6.387	3.48	636.874	29.688	
2	5	6.387	4.65	637.830	29.674	
2	6	6.387	5.81	638.838	30.017	
2	7	6.387	6.97	638.948	29.909	
2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	8	6.387	8.13	638.144	30.199	
2	9	6.387	9.29		30.382	
2	10	6.387	10.45			
2	AVG	0.307	10.45	637.631	28.702	
2		6 755	0 00	636.876	29.451	
3	1	6.755	0.00	638.659	27.345	
3	2 3	6.755	1.16	634.504	29.211	
3	3 4	6.755	2.32	636.966	29.359	
3	4	6.755	3.48	639.563	29.400	
3	5	6.755	4.65	638.849	29.428	
3	6	6.755	5.81	640.960	29.777	
3	7	6.755	6.97	638.801	29.951	
3	8	6.755	8.13	640.760	30.141	
3	9	6.755	9.29	638.945	30.429	
3	10	6.755	10.45	639.790	28.792	
	AVG			638.798	29.432	
4	1	7.104	0.00	643.840	27.348	
4	2	7.104		640.022	28.092	
4	3	7.104	2.32	641.204	28.872	
4	4	7.104	3.48	646.044	29.894	
4	5 6	7.104	4.65	645.328	29.911	
4	6	7.104	5.81	644.873	30.225	
4	7	7.104	6.97	645.202	29.895	
4	8	7.104	8.13	646.208	30.197	
4	9	7.104	9.29	645.725	30.626	
4	10	7.104	10.45	647.891	28.894	
4	AVG			644.717	29.468	

DISCHA	RGE CON	DITIONS	(CORREC	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	653.612	28.196	
5	2	7.437	1.16	646.939	26.540	
5	3	7.437	2.32	648.780	27.969	
5	4	7.437	3.48	652.583	30.441	
5	5	7.437	4.65	652.007	30.767	
5 5 5 5 5 5 5	5 6	7.437	5.81	649.257	30.749	
รั	7	7.437	6.97	651.527	30.630	
Š	8	7.437	8.13	653.679	30.827	
Š	9	7.437	9.29	653.105	31.347	
5 5 5	10	7.437	10.45	654.035	30.021	
5	AVG	1.431	10.43	651.706		
5 6	1	7.756	0.00		29.915	
6	2	7.756	1.16	660.005	28.072	
6	3			652.801	26.664	
6		7.756	2.32	653.444	28.032	
6	4	7.756	3.48	657.451	30.423	
6	5	7.756	4.65	658.173	30.528	
6	6	7.756	5.81	656.922	31.178	
6	7	7.756	6.97	659.546	30.993	
6	8	7.756	8.13	661 311	30.815	
6	9	7.756	9.29	660.937	31.061	
6	10	7.756	10.45	664.542	29.530	
6	AVG			658.709	29.895	
7	1	8.062	0.00	666.562	27.354	
7	2	8.062	1.16	657.963	28.138	
7	3	8.062	2.32	657.426	29.041	
7	4	8.062	3.48	660.851	29.456	
7	5	8.062	4.65	663.205	29.243	
7	6	8.062	5.81	663.526	29.839	
7	7	8.062	6.97	665.800	29.174	
7	8	8.062	8.13	669.786	29.565	
7	9	8.062	9.29	669.079	29.743	
7	10	8.062	10.45	678.207	28.134	
7	AVG			665.166	29.018	
8	1	8.356	0.00	673.450	27.540	
8	2	8.356	1.16	665.605	28.384	
8	3	8.356	2.32	666.785	28.876	
8	4	8.356	3.48	668.045	28.630	
8	5 6	8.356	4.65	672.416	28.637	
8	6	8.356	5.81	675.019	29.146	
8	7	8.356	6.97	677.142	28.650	
8	8	8.356	8.13	682.541	29.060	
8	9	8.356	9.29	681.594	29.156	
8	10	8.356	10.45	686.797	28.318	
8	٩VG		_	674.947	28.658	
				 		

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COMPRESSOR CONFIGURATION: PBS
                                  SCAN: 3
                                                    TEST ID:870901004
NOMINAL % DESIGN SPEED:100
                                   THROTTLE:055
PERFORMANCE:
            =1729.23
MEAS. WORK
                     ISEN. EFFIC. = 85,171
                                            POLYTROPIC EFFIC.=86.550
MEAS. FLOWR. = 35.840 CORR. FLOWR. = 60.073
                                            COMPUTED FLOWRATE=59.044
MEASURED RPM=20932.0 CORR. RPM
                                 =20190.9
                                            % DESIGN RPM
                                                               = 99.85
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351
                                             PRESSURE RATIO
                                                               = 2.011
D.P. TEMP. =450.211 P. COR. FAC.= 1.617
                                                                  .930
                                             TEMP. COR. FACT. =
ATMOS. PRES.= 14.331 ATM.PRES.(S)= 14.333 REL. HUMIDITY
                                                                  .016
CALIBRATION PRESSURES (SONIX) = 9.0013 14.3325
                                                   29.3426
VENTURI PRESSURES:
         (AVG=10.135, SONIX=10.137)=
                                      10.137
                                               10.130
   INLET
                                                      10.137
                                                               10.135
                                        9.001
                                                        9.001
   THROAT (AVG= 8.996, SONIX= 9.000)=
                                                8.990
                                                                 8.990
                                        8.997
                                                8.996
                                                        8.998
                                                                 8.997
                                        8.994
                                                8.994
                                                        8.998
                                                                 8.997
PLENUM CONDITIONS:
                (AVG = 9.088, SONIX = 9.077) =
                                              9.088
                                                      9.089
   PI:ESSURES
   TEMPERATURES (AVG=557.48)= 556.83 557.52 556.89 557.61 558.56
                               558.59 557.09 556.97 557.29
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                        7.750
   RADIUS
                 8.125
                                7.375 7.000 6.625
                                                    6.250
                                                           5.875
                 5.500
                        5.125
   PRESSURE
              = 30.012 29.952 30.234 ****** 30.568 ****** 30.197
                29.638 29.715
   RADIUS
                 8.125
                        7.750
                               7.375 7.000 6.625
                                                    6.250
                                                           5.875
                 5.500
                        5.125
   TEMPERATURE= 684.67 638.95 ***** 640.50 662.62 ***** *****
                636.18 646.73
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB----
            P
   X
                    X
                            P
 -8.571
         10.472
                 -5.125
                         16.704
 -8.400
         10.426
                -5.125
                          16.612
 -8.400
         10.438
                 -5.125
                         17.073
 -8.400
         10.553
                 -5.125
                         16.598
 -8.400
         10.455
                 -1.650
                          22.501
         10.346
                 -1..650
 -8.318
                          22.767
 -8.065
         10.119
                 -1.650
                          22.824
 -7.811
         10.160
                 -1.650
                         22.014
 -7.558
         11.786
                  -.900
                          22.279
 -7.304
         *****
                  -.900
                          22.902
 -7.051
         15.693
                  -.900
                          22.925
 -6.798
         ****
                  -.900
                          22.499
 -6.544
         19.446
 -6.291
         20.355
 -6.037
         20.817
 -5.784
         22.147
 -1.650
         23.778
 -1.650
         24.248
 -1.650
         24.183
 -1.650
         23.551
  -.900
         23.137
  -.900
         23.672
  -.900
         23.614
```

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DISCHAF	RGE CON	NDITIONS	(CORREC	CTED):			
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
1	1	5.996	0.00	633.066	28.185		
1	2	5.996	1.16	630.347	26.971		
1	3	5.996	2.32	629.652	27.938		
1	4	5.996	3.48	635.742	29.222		
1	5	5.996	4.65	634.143	29.551		
1	5 6 7	5.996	5.81	635.129	29.782		
1	7	5.996	6.97	635.824	29.693		
1	8	5.996	8.13	635.856	29.894		
1	9	5.996	9.29	635.931	30.109		
1	10	5.996	10.45	636.457	29.01.4		
1	AVG			634.367	29.111		
2	1	6.387	0.00	634.941	27.392		
2	2 3	6.387	1.16	631.491	28.771		
2	3	6.387	2.32	634.464	29.484		
2	4	6.387	3.48	639.074	29.862		
2	5 6	6.387	4.65	638.823	29.842		
2	6	6.387	5.81	639.481	30.088		
2	7	6.387	6.97	639.818	30.022		
2	8	6.387	8.13	638.890	30.283		
2	9	6.387	9.29		30.575		
2	10	6.387	10.45	638.438	28.850		
111111122222222222333333333333333333333	AVG			637.602	29.577		
3	1	6.755	0.00	639.492	27.490		
3	2 3	6.755	1.16	634.740	28.696		
3		6.755	2.32	637.516	29.318		
3	4	6.755	3.48	640.841	29.775		
3	5	6.755	4.65	639.978	29.661		
3	6 7	6.755	5.81	640.896	30.119		
3 2	8	6.755	6.97	639.206	30.098		
3	9	6.755	8.13	641.312	30.420		
3	10	6.755 6.755	9.29 10.45	641.004 640.453	30.566		
3	AVG	0.755	10.45	639.603	29.292		
4		7.104	0.00	647.735	29.601		
4	1 2 3	7.104	1.16	638.982	27.804 27.933		
4	วั	7.104	2.32	641.334	28.638		
4	4	7.104	3.48	646.547	30.065		
4		7.104	4.65	645.234	30.167		
$\dot{4}$	6	7.104	5.81	644.328	30.556		
4	5 6 7 8	7.104	6.97	646.094	30.321		
4 4	8	7.104	8.13	647.585	30.622		
4	9	7.104	9.29	647.455	31.199		
4	10	7.104	10.45	650.666	29.545		
4	AVG			645.706	29.778		
	· · · · ·				_,,,,		

SCAN: 3 TEST ID:870901004 THROTTLE: 055

		DITIONS	•	•		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	657.151	28.918	
5	2	7.437	1.16	647.677	26.450	
5	3	7.437	2.32	648.268	27.284	
5	4	7.437	3.48	653.010	30.430	
5	5	7.437	4.65	652.644	31.177	
5555555555	6	7.437	5.81	650.857	31.141	
5	7	7.437	6.97	653.723	31.223	
5	8	7.437	8.13	656.238	31.457	
5	9	7.437	9.29	656.214	32.004	
5	10	7.437	10.45	657.021	30.679	
5	ĀVG		20010	653.582	30.321	
6	1	7.756	0.00	664.569	28.805	
6	2	7.756	1.16	656.409	26.720	
6	3	7.756	2.32	654.514	28.013	
6 6 6	4	7.756	3.48	658.992	30.806	
6	5	7.756	4.65	660.809	31.101	
6	6	7.756	5.81	659.861	32.054	
6	7	7.756	6.97	662.561	31.751	
6					31.610	
6	8	7.756	8.13	664.566	31.835	
6	9	7.756	9.29	664.635		
6	10	7.756	10.45	670.241	30.304	
6	AVG			661.977	30.524	
7	1	8.062	0.00	670.966	27.958	
7	2	8.062	1.16		28.424	
7	3	8.062	2.32	661.238	29.377	
7	4	8.062	3.48	665.397	30.039	
7	5	8.062	4.65	667.628	30.036	
7	6	8.062	5.81	666.661	30.664	
7	7	8.062	6.97	669.653	30.114	
7	8	8.062	8.13	674.543	30.421	
7	9	8.062			30.587	
7	10	8.062	10.45	684.148	28.824	
7	AVG			669.632	29.708	
8	1	8.356	0.00	679.107	28.183	
8	2	8.356	1.16	669.266	28.910	
8 8	3	8.356	2.32	669.353	29.306	
8	4	8.356		671.729	29.324	
8	5	8.356	4.65	675.299	29.523	
8	6	8.356		678.119	30.008	
8	7	8.356		680.741	29.616	
8	8	8.356		687.216	29.869	
8	9	8.356			30.057	
8	10	8.356			29.107	
8	AVG			678.999	29.413	
J	21.00			0.0.00	370	

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COMPRESSOR CONFIGURATION: PBS
                                   SCAN: 4
                                                    TEST ID:870901005
NOMINAL % DESIGN SPEED: 100
                                   THROTTLE: 065
PERFORMANCE:
MEAS. WORK
           =1745.45
                      ISEN. EFFIC. = 84.876
                                             POLYTROPIC EFFIC.=86.309
MEAS. FLOWR.= 35.019 CORR. FLOWR.= 59.520
                                             COMPUTED FLOWRATE=58.899
MEASURED RPM=20954.0 CORR. RPM =20212.2
                                             % DESIGN RPM
SPEC. HEAT
               1.400 GAS CONSTANT= 53.351
                                             PRESSURE RATIO
                                                               = 2.039
            =450.241
D.P. TEMP.
                      P. COR. FAC. = 1.639
                                                                 .930
                                             TEMP. COR. FACT. =
                      ATM.PRES.(S) = 14.332
ATMOS. PRES.= 14.331
                                             REL. HUMIDITY
                                                                  .016
CALIBRATION PRESSURES (SONIX) = 9.0008 14.3327 29.3412
VENTURI PRESSURES:
   INLET (AVG= 9.982, SONIX= 9.984)=
                                        9.985
                                                9.985
                                                         9.980
                                                                 9.977
   THROAT (AVG = 8.881, SONIX = 8.880) =
                                        8.885
                                                8.876
                                                         8.885
                                                                 8.876
                                        8.882
                                                8.881
                                                         8.883
                                                                 8.881
                                        8.880
                                                8.880
                                                         8.881
                                                                 8.882
PLENUM CONDITIONS:
   PRESSURES
                (AVG= 8.963, SONIX= 8.954)=
                                              8.968
                                                       8.957
   TEMPERATURES (AVG=557.48)= 557.08 557.77 557.08 557.48 558.47
                               558.35 557.08 556.44 557.54
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
                 8.125
                        7.750
                                7.375 7.000 6.625
                                                    6.250
                                                             5.875
                 5.500
                         5.125
              = 31.147 30.920 30.528 ****** 30.980 ****** 30.295
   PRESSURE
                29.719 29.863
                 8.125
   RADIUS
                        7.750
                               7.375 7.000 6.625
                                                    6.250
                 5.500
                        5.125
   TEMPERATURE= 687.43 639.62 ***** 641.92 665.20 ***** *****
                636.14 649.79
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB-----
            P
                    X
   X
                             P
 -8.571
         10.549
                 -5.125
                          17.061
 -8.400
         10.500
                 -5.125
                         16.938
 -0.400
         10.600
                 -5.125
                          17.388
 -8.400
         10.776
                 -5.125
                          16.913
 -8.400
         10.683
                 -1.650
                          23.044
 -8.318
         10.420
                 -1.650
                          23.273
 -8.065
         10.251
                 -1.650
                          23.397
 -7.811
         10.376
                 -1.650
                          22.567
 -7.558
                         22.856
         13.176
                  -.900
 -7.304
         *****
                 -.900 23.447
         16.473
                 -.900
 -7.051
                          23.498
 -6.798
         ****
                  -.900
                          23.037
 -6.544
         20.549
 -6.291
         21.279
 -6.037
         21.886
 -5.784
         23.097
 -1.650
         24.270
 -1.650
         24.718
 -1.650
         24.669
 -1.650
         23.952
  -.900
         23.623
  -.900
         24.185
  -.900
         24.010
  -.900
         23.304
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and the state of the state of the second state of the second state of the second state of the second state of

DISCHA	RGE CON	NDITIONS	(CORREC				
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
1	1	5.996	0.00	632.795	28.303		
1	2	5.996	1.16	632.243	27.164		
1	3	5.996	2.32	629.878	27.556		
1	4	5.996	3.48	633.892	29.527		
1	5	5.996	4.65	635.483	29.694		
1	6	5.996	5.81	635.647	29.918		
1	7	5.996	6.97	636.234	29.909		
1	8	5.996	8.13	636.355	29.899		
1	9	5.996	9.29	636.396	30.307		
1	10	5.996	10.45	636.653	29.175		
1	AVG			634.725	29.238		
2	1	6.387	0.00	637.514	27.776		
2	2	6.387	1.16	634.438	28.806		
2	2 3	6.387	2.32	633.923	29.225		
2	4	6.387	3.48	640.464	30.083		
2	5	6.387	4.65	640.095	30.101		
1 1 1 2 2 2 2 2 2 2 2 2	6	6.387	5.81	640.262	30.361		
2	7	6.387	6.97	641.729	30.378		
2	8	6.387	8.13	640.258	30.338		
2	9	6.387	9.29	640.814	30.905		
2	10	6.387	10.45	639.438	29.275		
2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	AVG			639.012	29.787		
3	1	6.755	0.00	641.848	27.791		
3	2 3	6.755	1.16	637.905	27.961		
3	3	6.755	2.32	638.557	28.182		
3	4	6.755	3.48	642.715	30.056		
3	5	6.755	4.65	643.818	30.130		
3	6	6.755	5.81	642.458	30.597		
3	7	6.755	6.97	642.079	30.554		
3	8	6.755	8.13	643.202	30.765		
3	9	6.755	9.29	642.490	30.994		
3	10	6.755	10.45	641.656	29.703		
3	AVG			641.802	29.784		
4	1	7.104	0.00	651.032	28.175		
4	2	7.104	1.16	643.493	27.329		
4	3	7.104	2.32	642.058	27.413		
4	4	7.104	3.48	649.727	30.348		
4	5	7.104	4.65	647.121	30.590		
4 4	6	7.104	5.81	646.233	31.062		
4	7	7.104	6.97	649.884	30.717		
4	8	7.104	8.13	648.373	30.923		
4	9	7.104	9.29	650.221	31.557		
4	10	7.104	10.45	652.581	30.036		
4	AVG			648.286	29.998		

TEST ID:870901005

DISCHA	RGE CON	DITIONS	(CORRE	CTED):			
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
5	1	7.437	0.00	660.718	29.528		
5	2	7.437	1.16	653.257	26.531		
Š	3	7.437	2.32	648.715	27.246		
5	4	7.437	3.48	652.698	30.440		
5	5	7.437	4.65	653.735			
5555555555	6				30.983		
5	7	7.437	5.81	651.167	31.489		
5		7.437	6.97	654.066	31.848		
5	8	7.437	8.13	659.457	32.060		
5	9	7.437	9.29	659.146	32.844		
5	10	7.437	10.45	660.189	31.389		
5	AVG			655.605	30.746		
6	1	7.756	0.00	675.287	29.227		
6	2	7.756	1.16	661.748	26.848		
6	3	7.756	2.32	655.005	28.100		
6 6	4	7.756	3.48	659.007	30.663		
6	5	7.756	4.65	662.924	31.469		
6	6	7.756	5.81	662.107	32.682		
6	7	7.756	6.97	666.810	32.302		
6	8	7.756	8.13	666.922	32.214		
Ğ	ğ	7.756		667.912	32.564		
Ğ	10	7.756	10.45	680.191	30.795		
6	AVG	7.750	10.45	666.000			
7	1	8.062	0 00	682.347	30.964		
ŕ			0.00		28.419		
	2	8.062	1.16		28.459		
7	3	8.062	2.32	663.127	29.311		
7	4	8.062	3.48	669.893	30.659		
7	5	8.062	4.65	671.921	30.772		
7	6	8.062	5.81	670.521	31.632		
7	7	8.062	6.97	674.325	30.986		
7	8	8.062	8.13	677.298	31.167		
7	9	8.062	9.29	678.279	31.535		
7	10	8.062	10.45	691.255	29.767		
7	AVG			674.614	30.372		
8	1	8.356	0.00	689.576	28.899		
8	2	8.356	1.16	677.949	29.166		
8	3	8.356	2.32	672.958	30.073		
8	4	8.356	3.48	677.475	30.330		
8	5	8.356	4.65	680.815	30.557		
8	6	8.356	5.81	683.604	31.165		
8	7	8.356	6.97	685.798	30.943		
8	8	8.356	8.13	691.016	30.706		
8	9	8.356	9.29	692.151	31.124		
8	10	8.356	10.45	698.484			
8	AVG	0.330	10.40	685.018	30.280		
0	AVG			000.019	30.365		

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SCAN: 5
COMPRESSOR CONFIGURATION: PBS
                                                     TEST ID:870901006
NOMINAL % DESIGN SPEED:100
                                   THROTTLE: 075
PERFORMANCE:
MEAS. WORK =1714.13 ISEN. EFFIC.= 82.222 POLYTROPIC EFFIC.=83.901 MEAS. FLOWR.= 33.970 CORR. FLOWR.= 58.051 COMPUTED FLOWRATE=57.228 MEASURED RPM=20816.0 CORR. RPM =20201.8 % DESIGN RPM = 99.90
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                                = 2.035
D.P. TEMP. =449.968
                       P. COR. FAC. = 1.658 TEMP. COR. FACT. = .942
ATMOS. PRES. = 14.333 ATM.PRES.(S) = 14.334 REL. HUMIDITY
                                                                  .019
CALIBRATION PRESSURES (SONIX) = 9.0016 14.3336 29.3424
VENTURI PRESSURES:
   INLET (AVG= 9.808, SONIX= 9.809)=
                                       9.811
                                                 9.806
                                                          9.803
                                                                  9.810
                                                         8.780
   THROAT (AVG = 8.780, SONIX = 8.781) =
                                         8.780
                                                 8.775
                                                                  8.775
                                                 8.782
                                         8.783
                                                          8.781
                                                                  8.781
                                         8.780
                                                  8.780
                                                          8.783
                                                                  8.782
PLENUM CONDITIONS:
   PRESSURES (AVG= 8.860, SONIX= 8.849)=
                                               8.861
                                                        8.859
   TEMPERATURES (AVG=550.73) = 550.94 551.64 550.79 550.21 551.35
                                550.94 549.80 549.39 551.46
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
            = 8.125 7.750 7.375 7.000 6.625 6.250 5.875
                  5.500
                        5.125
               = 31.415 31.068 30.476 ****** 31.239 ****** 30.585
   PRESSURE
                 29.891 29.986
               = 8.125 7.750 7.375 7.000 6.625 6.250
   RADIUS
                                                             5.875
                  5.500 5.125
   TEMPERATURE= 691.06 642.15 ***** 643.12 667.86 ***** *****
                 635.91 649.57
STATIC PRESSURES (CORRECTED):
 ----CASING---- ----HUB-----
            P
                  X
                             P
   X
 -8.571
         10.968 -5.125
                          17.366
        11.088 -5.125
                         17.230
 -8.400
         11.141 -5.125
 -8.400
                          17.644
 -8.400
         11.326 -5.125
                          17.211
         11.241 - 1.650
                          23.255
 -8.400
         10.948
 -8.318
                  -1.650
                         23.468
        10.669 -1.650 23.584
 -8.065
 -7.811
        11.201 -1.650 22.828
                   -.900 23.123
 -7.558
         15.957
                  -.900 23.685
 -7.304
         *****
 -7.051
         17.806
                -.900 23.754
 -6.798
         *****
                 -.900
                         23.305
 -6.544
         21.181
 -6.291
          21.915
          22.372
 -6.037
 -5.784
          23.587
          24.339
 -1.650
 -1.650
          24.726
 -1.650
         24.642
 -1.650
         24.054
  -.900
         23.826
  -.900
         24.358
         24.206
  -.900
```

DISCHAI	RGE COI	NDITIONS	(CORREC	CTED):			
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
1	1	5.996	0.00	634.884	28.313		, 022
1	2	5.996	1.16	633.454	26.824		
1	3	5.996	2.32	630.833	26.833		
1	4	5.996	3.48	633.312	29.764		
1	5	5.996	4.65	636.346	29.807		
ī	5 6	5.996	5.81	636.626	29.954		
ī	7	5.996	6.97	636.528	30.102		
ī	8	5.996	8.13	636.733	29.986		
ī	9	5.996	9.29		30.379		
ī	10	5.996	10.45	636.458	29.137		
ī	AVG	3.330	10.43	635.414	29.261		
2	1	6.387	0.00	639.941			
2	2	6.387	1.16	637.176	27.790		
2	3	6.387	2.32	633.686	27.762		
2	4	6.387	3.48	639.082	27.721 29.931		
2	5	6.387	4.65	642.690	30.313		
2	5 6	6.387	5.81	641.723	30.413		
2	7	6.387	6.97	641.381	30.625		
1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3	8	6.387	8.13	641.134	30.418		
2	9	6.387	9.29	641.811			
2	10	6.387	10.45	641.276	30.810		
2	AVG	0.307	10.45		29.279		
3	1	6.755	0 00	640.252	29.632		
3	2	6.755	$0.00 \\ 1.16$	645.217	28.183		
3	3	6.755	2.32	640.328	26.604		
3	4	6.755		640.574	26.774		
2	- 4 -	6.755	3.48	642.243	29.772		
3	5 6	6.755	4.65	646.150	30.158		
2	7		5.81	646.084	30.491		
2	8	6.755	6.97	644.440	30.821		
2	9	6.755	8.13	644.065	30.808		
2	10	6.755	9.29	643.071	31.316		
2	AVG	6.755	10.45	643.548	29.872		
4	1	7 104	0 00	643.763	29.719		
4	2	7.104	0.00	653.458	28.098		
4	3	7.104 7.104	1.16 2.32	647.621	26.008		
4	4			643.996	26.637		
4		7.104	3.48	646.197	29.292		
4	2	7.104	4.65	653.142	30.382		
4	5 6 7	7.104 7.104	5.81	650.272	30.730		
4	8		6.97	650.944	31.178		
4	9	7.104 7.104	8.13 9.29	650.320	31.029		
4	10	7.104		650.158	31.514		
4	AVG	7.104	10.45	653.259	30.235		
73	AVU			650.220	29.838		

		NDITIONS	(CORREC	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	667.289	28.872	
5	2	7.437	1.16	657.874	26.352	
5	3	7.437	2.32	649.164	26.825	
5	4	7.437	3.48	652.689	28.757	
5	5	7.437	4.65	658.980	30.675	
5	6	7.437	5.81	654.610	31.257	
5	7	7.437	6.97	656.723	31.630	
5	8	7.437	8.13	660.976	31.799	
5	9	7.437	9.29	659.763	32.792	
55555555	10	7.437	10.45	670.080	30.665	
5	AVG			659.141	30.331	
6	1	7.756	0.00	685.102	28.434	
6	2.	7.756	1.16	666.870	26.737	
6	3	7.756	2.32	657.596	27.072	
6	4	7.756	3.48	660.232	28.881	
6	5 6	7.756	4.65	665.654	30.950	
6	6	7.756	5.81	662.186	32.136	
6	7	7.756	6.97	668.934	31.968	
6 6	8	7.756	8.13	670.706	31.749	
6	9	7.756	9.29	674.136	32.343	
6	10	7.756	10.45	697.639	30.346	
6	AVG			671.132	30.410	
7	1	8.062	0.00	693.682	28.259	
7	2	8.062	1.16	676.023	27.908	
7	3	8.062	2.32	666.740	28.374	
7	4	8.062	3.48	672.782	30.017	
7	5	8.062	4.65	673.675	30.830	
7	6	8.062	5.81	672.039	31.900	
7	7	8.062	6.97	677.934	31.201	
7	8	8.062	8.13	681.786	31.391	
7	9	8.062	9.29	684.097	31.753	
7	10	8.062	10.45	701,467	30.767	
Ź	AVG	0.00-		680.029	30.409	
8	1	8.356	0.00	704.130	29.464	
8	2	8.356	1.16		29.416	
8	3	8.356	2.32	680.989	30.423	
8	4	8.356			30.596	
8	5	8.356	4.65	686.197	30.820	
8	6	8.356	5.81	687.948	32.075	
	7	8.356	6.97	691.235	31.893	
Ŕ	8	8.356	8.13	696.675	31.771	
8	9	8.356	9.29	697.845	31.801	
8 8 8 8	10	8.356	10.45	709.461	31.582	
8	AVG	0.550	20.30	692.856	31.047	
J	2.00			0,2.000	31.04/	

```
COMPRESSOR CONFIGURATION: PBS
                                  SCAN: 6
                                                    TEST ID:870901007
NOMINAL % DESIGN SPEED:100
                                  THROTTLE: 080
PERFORMANCE:
MEAS. WORK
           =1699.03
                     ISEN. EFFIC. = 80.682 POLYTROPIC EFFIC. =82.490
MEAS. FLOWR.= 33.510 CORR. FLOWR.= 56.793 COMPUTED FLOWRATE=56.043
MEASURED RPM=20748.0 CORR. RPM =20192.7 % DESIGN RPM
                                                              = 99.85
SPEC. HEAT = 1.400
                      GAS CONSTANT= 53.351 PRESSURE RATIO
                                                              = 2.022
D.P. TEMP. =449.968
                      P. COR. FAC.= 1.649
                                            TEMP. COR. FACT. =
                                                                .947
ATMOS. PRES. = 14.334 ATM.PRES.(S) = 14.333 REL. HUMIDITY
                                                                 .021
CALIBRATION PRESSURES (SONIX) = 9.0010 14.3336
VENTURI PRESSURES:
   INLET (AVG= 9.818, SONIX= 9.821)=
                                      9.821
                                               9.817
                                                        9.814
                                                                9.820
   THROAT (AVG= 8.834, SONIX= 8.835)=
                                       8.832
                                                8.831
                                                        8.832
                                                                8.831
                                       8.836
                                                8.835
                                                        8.836
                                                                8.836
                                       8.833
                                                8.833
                                                        8.836
                                                                8.836
PLENUM CONDITIONS:
   PRESSURES
                (AVG= 8.908, SONIX= 8.898)=
                                             8.914
                                                      8.903
   TEMPERATURES (AVG=547.63)= 548.22 548.66 547.93 547.08 547.93
                              547.52 546.78 546.05 548.51
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
                 8.125
                       7.750
                               7.375
                                     7.000
                                             6.625
                                                    6.250
                                                            5.875
                 5.500
                        5.125
               31.696 31.092 30.406 ***** 31.152 ***** 30.721
   PRESSURE
                30.023 30.080
   RADIUS
                 8.125
                        7.750
                              7.375 7.000 6.625
                                                    6.250
                 5.500
                       5.125
   TEMPERATURE= 695.77 641.99 ***** 642.58 668.10 ***** *****
                634.72 650.52
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB----
            P
   Х
                    X
                            P
 -8.571
         11.338
                -5.125
                         17.466
 -8.400
         11.382
                -5.125
                        17.268
         11.490
 -8.400
                 -5.125
                         17.690
                 -5.125
 -8.400
         11.627
                         17.267
 -8.400
         11.507
                 -1.650
                         23.281
 -8.318
         11.289
                 -1.650
                         23.397
 -8.065
         10.947
                 -1.650
                         23.558
 -7.811
         11.529
                 -1.650
                         22.860
 -7.558
         17.195
                  -.900
                         23.150
 -7.304
         *****
                 -.900
                         23.660
         18.485
                  -.900
 -7.051
                         23.751
 -6.798
                  -.900
         *****
                         23.350
         21.404
 -6.544
         22.100
 -6.291
 -6.037
         22.441
 -5.784
         23.661
 -1.650
         24.260
 -1.650
         24.610
 -1.650
         24.581
 -1.650
         23.994
  -.900
         23.822
  -.900
         24.334
  -.900
         24.200
  -.900
         23.536
```

DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	634.473	28.196	
1	2	5.996	1.16	633.579	26.420	
1	3	5.996	2.32	631.182	26.635	
1	4	5.996	3.48	632.613	29.548	
1	5	5.996	4.65	635.932	29.899	
1	5	5.996	5.81	636.726	29.808	
1	7	5.996	6.97	635.700	30.120	
ī	8	5.996	8.13	636.364	30.032	
$\bar{1}$	9	5.996	9.29	636.687	30.318	
1	10	5.996	10.45	636.077	29.142	
ī	AVG	3.330	10.43	635.114	29.195	
2	1	6.387	0.00	640.992	27.849	
2		6.387	1.16	637.240	26.931	
2	3	6.387	2.32	634.935	27.092	
2	2 3 4 5 6	6.387	3.48	638.195	29.022	
2	5	6.387	4.65	643.249	30.348	
2	5	6.387	5.81	642.514		
2	7				30.247	
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8	6.387	6.97	641.033	30.784	
2		6.387	8.13	641.456	30.458	
2	9	6.387	9.29	641.775	30.726	
2	10	6.387	10.45	642.369	29.387	
2	AVG	e ====		640.637	29.468	
3	1	6.755	0.00	645.864	28.134	
3 3 3 3 3 3 3 3 3 3	2	6.755	1.16	641.338	26.222	
3	3	6.755	2.32	640.208	26.527	
3	4	6.755	3.48	642.095	28.944	
3	5 6	6.755	4.65	647.572	30.138	
3	6	6.755	5.81	646.483	30.319	
3	7	6.755	6.97	644.521	30.865	
3	8	6.755	8.13	644.508	30.786	
3	9	6.755	9.29	643.748	31.150	
3	10	6.755	10.45	644.953	29.826	
3	AVG			644.370	29.568	
4	1	7.104	0.00	654.552	28.094	
4	2	7.104	1.16	649.213	25.851	
4	3	7.104	2.32	643.248	26.252	
4	4	7.104	3.48	644.923	28.315	
4	5	7.104	4.65	652.638	30.143	
4	6	7.104	5.81	650.771	30.434	
4	7	7.104	6.97	651.374	31.206	
4	8	7.104	8.13	649.749	30.962	
4	9	7.104	9.29	648.904	31.599	
4	10	7.104	10.45	653.724	30.304	
4	AVG			650.204	29.693	
_	22.0				= 2	

		NDITIONS					
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
5	1	7.437	0.00	671.732	28.845		
5	2	7.437	1.16	661.377	26.156		
5	3	7.437	2.32	649.822	26.306		
5	4	7.437	3.48	651.565	28.050		
5	5	7.437	4.65	657.680	30.432		
5	5 6 7	7.437	5.81	654.389	30.886		
5555555556		7.437	6.97	656.814	31.457		
5	8	7.437	8.13	659.994	31.476		
5	9	7.437	9.29	660.959	32.312		
5	10	7.437	10.45	675.213	30.417		
5	AVG			660.254	30.035		
6	1	7.756	0.00	689.758	27.965		
6	2	7.756	1.16	669.539	26.408		
6	3	7.756	2.32	659.073	26.600		
6	4	7.756	3.48	660.611	28.566		
6		7.756	4.65	665.100	30.525		
6	5 6 7	7.756	5.81	662.309	31.598		
6 6	7	7.756	6.97	669.117	31.765		
6	8	7.756	8.13	674.039	31.458		
6	9	7.756	9.29		31.946		
6	10	7.756	10.45	702.469	30.230		
6	AVG			673.331	30.088		
7	1	8.062	0.00	697.407	28.122		
7	2	8.062	1.16	679.998	27.558		
7	3	8.062	2.32	670.448	27.861		
7	4	8.062	3.48	674.507	29.533		
7	5	8.062	4.65	674.312	30.643		
7	6	8.062	5.81	674.180	31.707		
7	7	8.062	6.97	679.304	31.211		
7	8	8.062	8.13	684.485	31.220		
7	9	8.062	9.29	687.187	31.616		
7	10	8.062	10.45	705.750	30.717		
7	AVG			682.776	30.219		
8	1	8.356	0.00	706.614	29.328		
8	2	8.356	1.16	693.755	29.203		
8	3	8.356	2.32	686.897	30.100		
8	4	8.356	3.48	689.016	30.494		
8		8.356	4.65	688.300	30.743		
	6	8.356	5.81	690.101	31.893		
8	7	8.356	6.97	693.295	31.756		
8	5 6 7 8	8.356	8.13	697.339	31.655		
8 8 8 8	9	8.356	9.29	700.349	31.880		
8	10	8.356	10.45	712.153	31.566		
8	AVG	2.220		695.775	30.933		
•				033.773	50.355		

```
TEST ID:870828008
COMPRESSOR CONFIGURATION: PBS
                                    SCAN: 2
                                    THROTTLE:000
NOMINAL % DESIGN SPEED:095
PERFORMANCE:
MEAS. WORK =1514.79
                       ISEN. EFFIC. = 85.298
                                              POLYTROPIC EFFIC.=86.441
MEAS. FLOWR. = 40.108
                       CORR. FLOWR. = 59.417
                                              COMPUTED FLOWRATE=57.484
                                              % DESIGN RPM
                       CORR. RPM
                                   =19195.2
                                                                = 94.92
MEASURED RPM=19722.0
                       GAS CONSTANT= 53.351
                                                                  1.780
               1.400
                                              PRESSURE RATIO
SPEC. HEAT
            ===
                                                                    .947
D.P. TEMP.
            =449.816
                       P. COR. FAC.= 1.442
                                              TEMP. COR. FACT. =
                       ATM.PRES.(S) = 14.276
                                                                    .021
ATMOS. PRES. = 14.278
                                              REL. HUMIDITY
CALIBRATION PRESSURES (SONIX)=
                                  9.0037 14.2764
                                                     29.2788
VENTURI PRESSURES:
   INLET
          (AVG=11.319,SONIX=11.315)=
                                        11.321
                                                 11.316
                                                         11.321
                                                                  11.320
                                        10.079
                                                 10.081
                                                         10.079
                                                                  10.081
   THROAT (AVG=10.086, SONIX=10.086)=
                                        10.090
                                                 10.089
                                                         10.088
                                                                  10.087
                                        10.088
                                                 10.088
                                                         10.089
                                                                  10.089
PLENUM CONDITIONS:
   PRESSURES
                 (AVG=10.191, SONIX=10.177) = 10.195
                                                       10.187
   TEMPERATURES (AVG=547.57)= 547.66 548.21 547.22 547.22 548.21
                                548.21 546.78 546.57 548.07
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                                 7.375
                                              6.625
                  8.125
                         7.750
                                        7.000
                                                       6.250
                                                               5.875
   RADIUS
                         5.125
                  5.500
                 25.132 25.811 25.485 ***** 27.258 ***** 27.602
   PRESSURE
                  27.603 27.459
                                                6.625
                                                       6.250
   RADIUS
                  8.125
                         7.750
                                 7.375
                                       7.000
                                                               5.875
                  5.500
                         5.125
   TEMPERATURE= 649.23 622.49 ***** 625.55 630.62 ******
                 622.37 627.65
STATIC PRESSURES (CORRECTED):
 ----CASING----
                  ----HUB----
             P
                     X
                              P
   Х
 -8.571
         10.780
                  -5.125
                          15.516
 -8.400
         10.712
                  -5.125
                          15.350
 -8.400
         10.731
                  -5.125
                          15.744
 --8.400
          10.700
                  -5.125
                           15.346
 -8.400
          10.617
                  -1.650
                           18.239
 -8.318
         10.611
                  -1.650
                           18.803
                  -1.650
 -8.065
          10.428
                           18.684
 -7.811
          10.381
                  -1.650
                           17.732
                   -.900
 -7.558
          11.590
                           17.989
          *****
                   -.900
 -7.304
                           18.620
 -7.051
          11.635
                   -.900
                           18,779
 -6.798
          *****
                   -.900
                           18.180
 -6.544
          15.687
 -6.291
          17.367
 -6.037
          18.379
 -5.784
          19.588
 -1.650
          19.976
 -1.650
          20.456
 -1.650
          20.377
 -1.650
          19.823
  -.900
          19.219
  -.900
          19.750
  -.900
          19.494
  -.900
          18.859
```

SCAN: 2 TEST ID:870828008 THROTTLE:000

DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	624.145	25.294	
1	2	5.996	1.16	621.633	23.763	
1	3	5.996	2.32	617.757	24.904	
1	4	5.996	3.48	621.237	26.906	
1	5	5.996	4.65	619.194	27.615	
1	5 6 7	5.996	5.81	620.477	27.832	
1	7	5.996	6.97	620.826	27.731	
1	8	5.996	8.13	621.970	27.805	
1 1 1 1	9	5.996	9.29	621.864	27.915	
1	10	5.996	10.45	622.513	26.707	
1	AVJ			621.156	26.771	
2	1	6.387	0.00	619.449	25.498	
2	2	6.387	1.16	619.632	27.410	
2	3	6.387	2.32	621.021	27.462	
2	4	6.387	3.48	622.141	27.530	
2	5	6.387	4.65	623.047	27.457	
2	4 5 6	6.387	5.81	623.521	27.652	
2	7	6.387	6.97	622.609	27.612	
2	8	6.387	8.13	622.265	27.790	
2	ğ	6.387	9.29	621.946	27.790	
2 2 2 2 2 2 2 2 2 2	10	6.387	10.45	622.985	26.182	
2	AVG	0.507	10.45	621.884	27.259	
3	1	6.755	0.00	620.167	26.044	
3	2	6.755	1.16	621.430	27.416	
3	3	6.755	2.32	622.455	27.410	
3	4	6.755	3.48	624.283		
3	Š	6.755	4.65	624.641	27.420 27.452	
3	5 6	6.755	5.81	625.713	27.452	
3	7	6.755	6.97	622.769		
3	8	6.755	8.13	623.615	27.708	
3	9	6.755	9.29	622.275	27.844	
3 3 3 3 3 3 3 3 3 3	10	6.755	10.45	624.164	28.049	
รั	ĀVG	0.755	10.43	623.166	25.809	
4	1	7.104	0.00	622.403	27.324	
4	2	7.104	1.16	622.498	25.980	
4	3	7.104	2.32	622.617	26.828	
4	4	7.104	3.48	626.219	26.856	
4	-	7.104	4.65	626.104	26.865	
4	5 6	7.104	5.81	626.255	26.906	
4	7	7.104	6.97	626.725	27.364	
4	8	7.104	8.13	625.892	27.312	
4	9	7.104	9.29	625.471	27.481	
4	10	7.104	10.45	627.230	27.702	
4	AVG	7 • 104	T0.43	625.153	25.783	
	AVG			023.133	26.935	

AVG

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DISCHARGE CONDITIONS (CORRECTED): TOTAL PRES. PROBE RAKE RADIUS ANGLE TOTAL TEMP. FLOW ANGLE 0.00 5 1 7.437 622.052 25.491 5 26.531 2 7.437 1.16 621.852 5 26.645 3 7.437 2.32 622.866 5 7.437 625.788 3.48 26.585 5 5 7.437 4.65 625.438 26.511 625.577 6 7.437 5.81 26.667 55555 7 7.437 6.97 625.129 26.354 8 8.13 625.794 26.636 7.437 9 7.437 9.29 625.036 27.022 10 7.437 627.721 25.282 10.45 624.717 AVG 26.391 6 24.904 1 7.756 0.00 626.312 6 2 7.756 1.16 622.694 26.276 6 3 7.756 2.32 623.1.44 26.152 6 4 3.48 625.481 26.167 7.756 6 5 626.533 26.097 7.756 4.65 6 6 628.853 26.365 7.756 5.81 6 7 7.756 629.377 26.053 6.97 6 7.756 632.911 26.320 8 8.13 632.522 6 9 7.756 26.307 9.29 10 6 7.756 634.606 24.948 10.45 6 628.199 25.979 **AVG** 7 24.123 0.00 641.511 1 8.062 77 2 8.062 1.16 630.637 25.928 26.152 628.574 3 8.062 2.32 3.48 4 8.062 631.572 25.859 7 7 7 635.752 5 25.613 8.062 4.65 6 639.210 8.062 5.81 25.964 7 8.062 6.97 7 642.136 25.446 . 7 8 8.062 8.13 644.558 25.674 9 8.062 9.29 643.962 25.657 7 10 8.062 648.192 24.504 10.45 7 638.387 25.525 **AVG** 8 8.356 0.00 649.487 24.529 1 637.020 8 8.356 25.457 2 1.16 2.32 26.152 8 3 8.356 639.899 8 642.496 25.219 4 8.356 3.48 4.65 8 5 8.356 646.311 25.029 8 6 8.356 25.471 5.81 650.065 8 7 8.356 6.97 653.482 25.144 8.13 8.356 654.741 25.349 8 8 9 8.356 9.29 655.139 25.465 8 657.456 8 10 8.356 10.45 24.822

648.477

```
SCAN: 3
COMPRESSOR CONFIGURATION: PBS
                                                     TEST ID:870828011
                                   THROTTLE:020
NOMINAL % DESIGN SPEED:095
PERFORMANCE:
MEAS. WORK
           =1513.34 ISEN. EFFIC.= 86.338 POLYTROPIC EFFIC.=87.439
MEAS. FLOWR. = 38.863 CORR. FLOWR. = 59.319 COMPUTED FLOWRATE = 57.472
MEASURED RPM=19716.0 CORR. RPM =19187.5 % DESIGN RPM SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATE
                                                               = 94.88
                                             PRESSURE RATIO
                                                               = 1.820
                                                                   .947
D.P. TEMP. =450.089 P. COR. FAC.= 1.485
                                            TEMP. COR. FACT. =
ATMOS. PRES. = 14.276 ATM.PRES.(S) = 14.276 REL. HUMIDITY
CALIBRATION PRESSURES (SONIX)=
                                 9.0020 14.2764 29.2780
VENTURI PRESSURES:
   INLET (AVG=10.989, SONIX=10.987) =
                                                        10.984
                                       11.001
                                                10.984
                                                                 10.985
   THROAT (AVG= 9.795, SONIX= 9.800)=
                                        9.786
                                                 9.788
                                                         9.786
                                                                  9.788
                                                         9.797
                                         9.798
                                                 9.797
                                                                  9.800
                                         9.802
                                                 9.802
                                                                  9.800
                                                         9.802
PLENUM CONDITIONS:
                                                       9.890
                                               9.894
   PRESSURES
                (AVG= 9.892, SONIX= 9.886)=
   TEMPERATURES (AVG=547.68) = 547.77 548.50 547.22 547.51 548.36
                               548.21 546.93 546.52 548.07
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                 8.125
                        7.750
                                7.375 7.000 6.625
                                                     6.250
   RADIUS
                                                            5.875
                        5.125
                  5.500
              = 26.458 26.840 26.138 ***** 27.464 ***** 27.972
   PRESSURE
                 27.686 27.614
                  8.125
                         7.750
                                7.375 7.000 6.625
   RADIUS
                                                     6.250
                  5.500
                         5.125
   TEMPERATURE= 654.28 623.48 ***** 626.11 633.26 ***** *****
                 622.41 628.23
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB----
 · Х
            P
                    X
                            P
                          15.798
 -8.571
         10.766 -5.125
                          15.633
 -8.400
         10.744 - 5.125
 -8.400
         10.765
                 -5.125
                          16.048
 -8.400
         10.766
                 -5.125
                          15.658
 -8.400
         10.706
                 -1.650
                          19.265
 -8.318
         10.602
                 -1.650
                          19.779
 -8.065
         10.430
                -1.650
                          19.677
 -7.811
         10.477 -1.650
                          18.803
 -7.558
         11.720
                 -.900
                          19.030
         ****
 -7.304
                 -.900
                          19.721
         12.212
                   -.900
 -7.051
                          19.702
 -6.798
         *****
                   -.900
                          19.217
 -6.544
         16.439
 -6.291
         18.142
 -6.037
         19.032
 -5.784
         20.226
 -1.650
         20.847
 -1.650
         21.323
 -1.650
         21.289
 -1.650
         20.657
  -.900
         20.118
  -.900
         20.621
         20.483
  -.900
```

Comments of the control of the contr

DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	624.125	25.599	
1	2	5.996	1.16	621.541	24.464	
1	3	5.996	2.32	618.351	25.380	
1	4	5.996	3.48	621.684	26.785	
1	5 6	5.996	4.65	619.960	27.651	
1	6	5.996	5.81	621.124	27.884	
1	7	5.996	6.97	621.349	27.775	
ī	8	5.996	8.13	622.269	27.946	
ī	ğ	5.996	9.29	622.343	28.018	
ī	10	5.996	10.45	623.022	26.865	
ī	AVG	3.330	10.43	621.585	26.938	
<u>,</u>	1	6.387	0.00	621.251		
2	2	6.387			25.228	
2	2	6 207	1.16	619.334	27.404	
2	3	6.387	2.32	621.532	27.599	
2	4	6.387	3.48	623.004	27.653	
2	3 4 5 6	6.387	4.65	623.566	27.645	
2	6	6.387	5.81	624.410	27.820	
2 2 2 2 2 2 2 2 2 2 2 2	7	6.387	6.97	623.742	27.770	
2	8	6.387	8.13	623.265	27.968	
2	9	6.387	9.29	622.862	27.917	
2	10	6.387	10.45	623.055	26.567	
2 3 3 3 3 3 3 3 3 3 3 3	AVG			622.629	27.400	
3	1	6.755	0.00	621.283	26.111	
3	2	6.755	1.16	621.609	27.548	
3	3	6.755	2.32	621.839	27.757	
3	4	6.755	3.48	623.519	27.513	
3	5 6 7	6.755	4.65	624.353	27.565	
3	6	6.755	5.81	626.758	27.885	
3	7	6.755	6.97	624.501	27.864	
3	8	6.755	8.13	624.970	28.022	
3	9	6.755	9.29	623.205	28.219	
3	10	6.755	10.45	624.350	26.360	
3	AVG			623.662	27.512	
4	1	7.104	0.00	623.223	25.875	
4	2	7.104	1.16	623.685	27.207	
4	3	7.104	2.32	623.584	27.336	
4	4	7.104	3.48	627.510	27.118	
$ar{4}$	5	7.104	4.65	627.661	27.280	
4	6	7.104	5.81	626.695	27.571	
4	6 7	7.104	6.97	626.692	27.539	
4	8	7.104	8.13	626.973		
4	9	7.104	9.29	626.202	27.806 27.846	
4	10	7.104	10.45	627.799	27.946	
4	AVG	7.104	10.45	626.018	26.074	
7	AVG			020.010	27.204	

DISCHARGE	CONDITIONS	(CORRE	CTED):		
PROBE RAI	KE RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1 7.437	0.00	625.744	25.700	LESW MIGHE
5	2 7.437	1.16	625.514	27.130	
5	3 7.437	2.32	626.026	27.266	
5	4 7.437	3.48	628.288	27.296	
5	5 7.437	4.65	629.186	27.190	
5	6 7.437	5.81	629.500	27.515	
5	7 7.437	6.97	628.774	27.135	
5	8 7.437	8.13	629.347	27.378	
5	9 7.437	9.29	627.864	27.543	
5 1	10 7.437	10.45	630.343	25.877	
5 🛽	AVG		628.064	27.031	
6	1 7.756	0.00	635.113	25.174	
6		1.16	628.111	27.203	
6	3 7.756	2.32	627.416	27.287	
6	4 7.756	3.48	630.221	27.191	
6	5 7.756	4.65	630.879	27.139	
6	6 7.756	5.81	632.279	27.357	
6		6.97	633.126	26.995	
6	8 7.756	8.13	636.872	27.209	
6	9 7.756	9.29	637.194	27.125	
	.0 7.756	10.45	642.998	25.613	
6 A	V G		633.261	26.871	
7	1 8.062	0.00	649.017	24.884	
7	2 8.062	1.16	636.122	26.795	
7	3 8.062	2.32	631.818	27.287	
7	1 8.062 2 8.062 3 8.062 4 8.062 5 8.062 6 8.062	3.48	634.796	26.960	
7	5 8.062	4.65	639.343	26.723	
7		5.81	642.953	27.081	
7	7 8.062	6.97	646.358	26.476	
7	8 8.062	8.13	649.594	26.786	
7	9 8.062	9.29	649.990	26.749	
7 1	.0 8.062	10.45	656.007	25.532	
7 A 8	VG		643.287	26.570	
8	1 8.356	0.00	654.932	25.497	
8	2 8.356	1.16	643.100	26.681	
8	3 8.356	2.32	645.202	27.287	
8	4 8.356	3.48	647.426	26.508	
8	5 8.356	4.65	651.275	26.150	
0	6 8.356	5.81	655.190	26.623	
Ο Ω	4 8.356 5 8.356 6 8.356 7 8.356 8 8.356	6.97	658.489	26.292	
0		8.13	660.189	26.538	
Ο Ω 1	9 8.356	9.29	661.585	26.587	
	0 8.356	10.45	664.108	25.954	
0 A	VG		654.002	26.429	

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COMPRESSOR CONFIGURATION: PBS
                                   scan: 7
                                                      TEST ID:870901010
NOMINAL % DESIGN SPEED:095
                                    THROTTLE: 045
PERFORMANCE:
MEAS. WORK =1518.06 ISEN. EFFIC.= 07.203 POLYTROPIC EFFIC.=88.269
MEAS. FLOWR.= 38.045 CORR. FLOWR.= 59.015 COMPUTED FLOWRATE=57.383
MEASURED RPM=19638.0 CORR. RPM =19181.3 % DESIGN RPM = 94.85
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                                = 1.859
D.P. TEMP. =450.241 P. COR. FAC. = 1.515 TEMP. COR. FACT. = .954
ATMOS. PRES. = 14.330 ATM.PRES.(S) = 14.334 REL. HUMIDITY
                                                                    .024
CALIBRATION PRESSURES (SONIX) = 9.0019 14.3336 29.3384
VENTURI PRESSURES:
                                                        10.753
   INLET (AVG=10.754, SONIX=10.753) = 10.754 10.757
                                                                 10.753
   THROAT (AVG= 9.598, SONIX= 9.598)=
                                         9.604
                                                  9.592
                                                          9.604
                                                                   9.592
                                                  9.599
                                                                   9.599
                                         9.600
                                                          9.599
                                         9.598
                                                  9.598
                                                          9.599
                                                                   9.600
PLENUM CONDITIONS:
                 (AVG= 9.698, SONIX= 9.681)=
                                                9.695
   PRESSURES
                                                        9.701
   TEMPERATURES (AVG=543.70)= 544.23 544.81 543.82 543.08 544.08
                                543.67 542.67 542.26 544.70
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
                 8.125
                         7.750
                                 7.375 7.000 6.625
                                                      6.250
                                                             5.875
                  5.500
                        5.125
               = 27.408 27.699 26.786 ***** 27.861 ***** 28.012
   PRESSURE
                 27.763 27.760
                         7.750
                  8.125
                                7.375 7.000 6.625
                                                      6.250
   RADIUS
                  5.500
                         5.125
   TEMPERATURE= 657.55 624.50 ***** 626.92 636.08 ***** *****
                 623.03 627.16
STATIC PRESSURES (CORRECTED):
 ----CASING----
                   X
            P
                              P
   X
         10.798 -5.125
                          16.142
 -8.571
 -8.400
        10.745 -5.125
                          16.003
 -8.400
        10.784
                  -5.125
                          16.413
 -8.400
         10.805
                  -5.125
                           15.989
 -8.400
         10.667
                  -1.650
                           20.231
 -8.318
         10.662
                  -1.650
                           20.675
         10.460
                  -1.650
                          20.610
 -8.065
 -7.811
         10.518
                  -1.650 19.757
 -7.558 11.850
                  -.900 19.990
 -7.304 *****
                   -.900 20.636
 -7.051 13.818
                   -.900
                           20.637
        *****
                   -.900 20.171
 -6.798
         17.907
 -6.544
         19.059
 -6.291
         19.649
 -6.037
 -5.784
         20.705
 -1.650
         21.685
 -1.650
         22.144
 -1.650
          22.089
          21.458
 -1.650
  -.900
          20.974
  -.900
         21.466
  -.900
         21.352
  -.900
         20.628
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DICCUAL	PGF COI	NDITIONS	/ CODUE	7MBD \ .		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	MOMA! BBMG	77 Att 11707 7
1	1	5.996	0.00	623.832	TOTAL PRES.	FLOW ANGLE
î	2	5.996	1.16		26.194	
i	3			620.961	25.141	
1	4	5.996	2.32	619.243	26.152	
1	4. E	5.996	3.48	622.733	27.031	
1	5 6	5.996	4.65	620.662	27.764	
1	9	5.995	5.81	621.916	27.958	
1	7	5.996	6.97	622.379	27.914	
1	8	5.996	8.13	623.095	27.996	
1	9	5.996	9.29	622.860	28.183	
1	10	5.996	10.45	623.655	27.174	
7	AVG			622.165	27.221	
2	1	6.387	0.00	622.771	25.387	
2	2 3	6.387	1.16	620.399	27.119	
2	3	6.387	2.32	623.148	27.748	
2	4	6.387	3.48	624.444	27.813	
2	5	6.387	4.65	624.895	27.839	
2	6	6.387	5.81	625.623	28.023	
2	7	6.387	6.97	625.607	27.899	
2	8	6.387	8.13	624.718	28.106	
2	9	6.387	9.29	624.479	28.209	
2	10	6.387	10.45	623.907	26.812	
122222222233333333333333333333333333333	AVG		_	624.045	27.545	
3	1	6.755	0.00	625.187	25.920	
3	2	6.755	1.16	622.397	27.648	
3	3	6.755	2.32	623.261	27.924	
3	4	6.755	3.48	624.535	27.855	
3	5	6.755	4.65	625.784	27.733	
3	6	6.755	5.81	628.709	28.098	
3	7	6.755	6.97	626.836	28.064	
3	8	6.755	8.13	626.304	28.298	
3	9	6.755	9.29	625.399	28.507	
3	10	6.755	10.45	625.185	27.042	
3	AVG			625.374	27.745	
4	1	7.104	0.00	626.068	25.772	
4	2	7.104	1.16	625.737	27.635	
4	3	7.104	2.32	624.128	27.711	
4	4	7.104	3.48	627.305	27.480	
4	5	7.104	4.65	627.590	27.792	
4	6	7.104	5.81	627.616	27.972	
4	5 6 7	7.104	6.97	628.743	27.870	
4	8	7.104	8.13	628.901	28.142	
4	9	7.104	9.29	627.613	28.255	
4	10	7.104	10.45	628.854	26.596	
4	AVG			627.268	27.562	

		NDITIONS				
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	629.924	25.929	
5	2	7.437	1.16	629.015	27.500	
5	3	7.437	2.32	627.420	27.655	
5	4	7.437	3.48	629.998	27.689	
5	5	7.437	4.65	631.374	27.799	
555555555	5 6 7	7.437	5.81	632.952	28.185	
5	7	7.437	6.97	632.130	27.824	
Š	8	7.437	8.13	632.554	28.009	
Š	9	7.437	9.29	631.517	28.232	
5	10	7.437	10.45			
5		7.437	10.45	632.913	26.581	
5	AVG	~ ~ ~ ~	0 00	630.993	27.577	
6	1	7.756	0.00	642.391	25.418	
6 6 6 6	2	7.756	1.16	633.320	27.296	
6	3 4	7.756	2.32	631.877	28.076	
6	4	7.756	3.48	633.173	28.040	
6	5 6 7	7.756	4.65	634.934	28.070	
6	6	7.756	5.81	636.177	28.348	
6	7	7.756	6.97	636.828	27.960	
6	8	7.756	8.13	639.855	28.046	
6	9	7.756	9.29	639.671	27.927	
6	10	7.756	10.45	649.349	26.361	
Ğ	ĀVG	, , , , ,	20,10	637.512	27.619	
ž	1	8.062	0.00	656.031	25.591	
ŕ	2	8.062	1.16			
4	2			642.070	27.128	
7	3	8.062	2.32	634.650	28.217	
7	4 5 6 7	8.062	3.48	637.465	27.877	
7	5	8.062	4.65	641.781	27.740	
7	6	8.062	5.81	646.161	28.198	
7		8.062	6.97	649.211	27.471	
7	8	8.062	8.13	652.939	27.765	
7	9	8.062	9.29	653.150	27.837	
7	10	8.062	10.45	662.955	26.765	
7	AVG			647.293	27.507	
8	1	8.356	0.00	659.211	26.564	
8	2	8.356	1.16	651.177	27.766	
8	3	8.356	2.32	649.272	27.989	
8	4	8.356	3.48	651.766	27.558	
8	-	8.356	4.65	655.808	27.396	
	6	8.356	5.81	659.484	27.886	
8 8 8	5 6 7	8.356	6.97	662.766		
٥	8				27.551	
8		8.356	8.13	666.577	27.640	
Ö	9	8.356	9.29	667.160	27.705	
8	10	8.356	10.45	671.588	27.183	
8	AVG			659.381	27.536	

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TEST ID:870901012
COMPRESSOR CONFIGURATION: PBS
                                     SCAN: 8
NOMINAL % DESIGN SPEED: 095
                                     THROTTLE: 065
PERFORMANCE:
MEAS. WORK =1533.94 ISEN. EFFIC. = 87.606
                                               POLYTROPIC EFFIC.=88.672
MEAS. FLOWR.= 37.222 CORR. FLOWR.= 58.569 COMPUTED FLOWRATE=57.138 MEASURED RPM=19626.0 CORR. RPM =19196.4 % DESIGN RPM = 94.93 SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO = 1.898
             =449.968 P. COR. FAC. = 1.539 TEMP. COR. FACT. =
                                                                       .957
D.P. TEMP.
ATMOS. PRES.= 14.331 ATM. PRES.(S)= 14.332 REL. HUMIDITY
                                                                       .025
CALIBRATION PRESSURES (SONIX) = 9.0029 14.3332
                                                      29.3372
VENTURI PRESSURES:
   INLET (AVG=10.574, SONIX=10.574) = 10.571
                                                           10.572
                                                   10.578
                                                                    10.574
   THROAT (AVG= 9.455, SONIX= 9.458)=
                                           9.447
                                                    9.456
                                                            9.447
                                                                     9.456
                                                                      9.457
                                         9.458
                                                    9.456
                                                             9.457
                                                             9.458
                                           9.456
                                                    9.456
                                                                      9.458
PLENUM CONDITIONS:
                  (AVG = 9.547, SONIX = 9.535) =
   PRESSURES
                                                  9.555
                                                           9.539
   TEMPERATURES (AVG=542.18) = 542.72 543.28 542.01 541.69 542.57
                                 542.28 541.13 540.83 543.13
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
                   8.125
                          7.750
                                  7.375 7.000 6.625
                                                         6.250
                                                                 5.875
                   5.500
                          5.125
               = 28.514 28.620 27.647 ***** 28.410 ***** 28.160
   PRESSURE
                  28.013 27.953
   RADIUS
                   8.125
                          7.750
                                  7.375 7.000 6.625
                                                        6.250
                                                                5.875
                   5.500
                          5.125
   TEMPERATURE= 662.00 625.06 ***** 626.46 640.04 ***** *****
                  623.39 629.02
STATIC PRESSURES (CORRECTED):
 ----CASING---- ----HUB-----
             P
                      X
   X
                               P
 -8.571
          10.874
                 -5.125
                            16.530
 -8.400
          10.817
                  -5.125
                            16.390
 -8.400
          10.890
                   -5.125
                            16.823
 -8.400
          10.925
                   -5.125
                            16.394
          10.822
 -8.400
                   -1.650
                            21.154
          10.712
 -8.318
                  -1.650
                            21.477
          10.559
 -8.065
                  -1.650
                            21.489
 -7.811
          10.691
                   -1.650
                            20.652
                   -.900
 -7.558
          12.312
                            20.890
 -7.304
          *****
                   -.900
                            21.545
 -7.051
          15.454
                   -.900
                            21.536
 -6.798
          ****
                    -.900
                            21.114
 -6.544
          19.021
 -6.291
          19.906
 -6.037
          20.494
 -5.784
          21.510
 -1.650
          22.471
 -1.650
          22.945
 -1.650
          22.884
 -1.650
          22.207
  -.900
          21.791
  -.900
          22.263
  -.900
          22.194
  -.900
          21.399
```

		NDITIONS					
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW	ANGLE
1	1	5.996	0.00	622.715	26.625		
1	2	5.996	1.16	620.529	25.433		
1	3	5.996	2.32	620.039	26.371		
1	4	5.996	3.48	624.147	27.639		
1	5	5.996	4.65	622.504	27.896		
1 1 1 1	5 6 7	5.996	5.81	623.738	28.097		
1		5.996	6.97	624.088	27.990		
1	8	5.996	8.13	624.476	28.121		
1	9	5.996	9.29	623.791	28.294		
1	10	5.996	10.45	624.624	27.491		
1	AVG			623.159	27.463		
2	1	6.387	0.00	624.475	25.748		
2	2	6.387	1.16	621.705	27.231		
2 2 2 2 2	3	6.387	2.32	625.202	27.770		
2	4	6.387	3.48	627.108	28.117		
2	5 6	6.387	4.65	626.532	28.049		
2	6	6.387	5.81	626.666	28.291		
2	7	6.387	6.97	627.681	28.180		
2	8	6.387	8.13	627.146	28.350		
2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	9	6.387	9.29	626.362	28.496		
2	10	6.387	10.45	625.944	27.344		
2	AVG			625.943	27.807		
3	1	6.755	0.00	627.624	25.996		
3	2	6.755	1.16	623.527	26.780		
3	3	6.755	2.32	626.005	27.911		
3	4	6.755	3.48	629.046	28.219		
3	5	6.755	4.65	628.689	28.200		
3	5 6	6.755		630.123	28.410		
3	7	6.755		627.910	28.320		
3	8	6.755		628.634	28.600		
3	9	6.755		626.582	28.580		
3	10	6.755		627.312	27.523		
3	AVG			627.597	27.907		
4	1	7.104	0.00	632.196	26.022		
4	2	7.104		626.333	27.924		
4	3	7.104	2.32	626.710	28.191		
4	4	7.104	3.48	628.993	28.072		
4	5	7.104	4.65	629.824	28.209		
4	6	7.104	5.81	630.822	28.582		
4	7	7.104		632.028	28.580		
4	8	7.104	8.13	632.804	28.877		
4	9	7.104	9.29	630.767	28.941		
4	10	7.104	10.45	632.072	27.504		
4	AVG			630.238	28.142		

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DISCHAI	RGE COI	NDITIONS	(CORRE	CTED):			
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	TI OW	ANGLE
5	1	7.437	0.00	637.127	26.228	FHOM	WINGTE
5	2	7.437	1.16	630.182			
5	3	7.437	2.32	630.177	27.707		
š	4	7.437	3.48		28.334		
Š	5	7.437	4.65	633.224	28.423		
Ĕ	5 6 7 8			634.400	28.516		
5	7	7.437	5.81	635.656	28.917		
5 E	/	7.437	6.97	636.288	28.697		
5		7.437	8.13	638.808	28.994		
ັ້ວ	9	7.437	9.29	637.313	29.156		
5	10	7.437	10.45	638.135	27.526		
5	AVG			635.128	28.305		
6	1 2	7.756	0.00	649.766	25.960		
6	2	7.756	1.16	638.254	26.970		
6	3	7.756	2.32	634.218	28.378		
6	4	7.756	3.48	638.028	28.664		
6	5	7.756	4.65	638.762	28.835		
6	6	7.756	5.81	642.401	29.308		
6	7	7.756	6.97	643.006	28.905		
55555555666666666	5 6 7 8	7.756	8.13	644.351	29.071		
6	9	7.756	9.29	645.082	28.809		
6	10	7.756	10.45	657.108	27.253		
6	AVG		20.45	642.846			
7	1	8.062	0.00		28.304		
7 7	2	8.062	1.16	660.457	26.307		
ż	3	8.062		645.650	27.299		
7	4		2.32	639.265	28.757		
7	- 4	8.062	3.48	642.788	28.536		
7 7 7	5 6	8.062	4.65	645.533	28.526		
<u>'</u>	9	8.062	5.81	649.322	29.008		
<u>′</u>	7	8.062	6.97	653.125	28.428		
7	8	8.062	8.13	657.249	28.697		
7	9	8.062	9.29	657.606	28.741		
7	10	8.062	10.45	666.882	27.963		
7	AVG			651.555	28.278		
8	1	8.356	0.00	665.766	27.315		
8	2	8.356	1.16	655.301	28.308		
8	3	8.356	2.32	651.064	28.653		
8	4	8.356	3.48	656.059	28.426		
8	5	8.356	4.65	658.566	28.479		
8	6	8.356	4.65 5.81	663.118	28.875		
8 8 8 8	5 6 7 8	8.356	6.97	667.047	28.790		
8	8	8.356	8.13	671.337	28.740		
8	9	8.356	9.29	671.540	28.694		
8	10	8.356	10.45	675.612	28.184		
2.4	AVG			663.481	28.461		
				003.401	40.401		

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COMPRESSOR CONFIGURATION: PBS
                                  SCAN: 9
                                                    TEST ID:870901013
NOMINAL % DESIGN SPEED: 095
                                  THROTTLE:065
PERFORMANCE:
MEAS. WORK =1520.81
                     ISEN. EFFIC. = 85.084 POLYTROPIC EFFIC. = 86.385
                     CORR. FLOWR. = 56.302 COMPUTED FLOWRATE = 55.107
MEAS. FLOWR. = 35.139
MEASURED RPM=19598.0
                     CORR. RPM =19186.3
                                            % DESIGN RPM
SPEC. HFAT
                      GAS CONSTANT= 53.351
           = 1.400
                                            PRESSURE RATIO
                                                              = 1.919
            =449.968
                      P. COR. FAC. = 1.569
D.P. TEMP.
                                            TEMP. COR. FACT. = .958
                      ATM.PRES.(S) = 14.333
                                            REL. HUMIDITY
ATMOS. PRES. = 14.334
                                                                 .026
CALIBRATION PRESSURES (SONIX) = 9.0028 14.3336 29.3394
VENTURI PRESSURES:
   INLET (AVG=10.302, SONIX=10.303) = 10.300
                                               10.299
                                                       10.305
                                                               10.305
                                                9.286
   THROAT (AVG= 9.292, SONIX= 9.291)=
                                        9.298
                                                        9.298
                                                                9.286
                                        9.292
                                                9.291
                                                        9.294
                                                                9.292
                                        9.290
                                                9.290
                                                        9.293
                                                                9.291
PLENUM CONDITIONS:
                (AVG= 9.368, SONIX= 9.356)=
                                              9.371
   PRESSURES
                                                      9.364
   TEMPERATURES (AVG=541.21)= 541.71 542.15 541.30 540.71 541.45
                               541.15 540.30 539.95 542.15
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
              = 8.125 7.750
                               7.375 7.000 6.625
                                                    6.250
   RADIUS
                                                            5.875
                 5.500
                        5.125
               29.449 29.233 28.195 ***** 28.988 ***** 28.492
   PRESSURE
                28.235 28.132
                        7.750
                               7.375 7.000 6.625
   RADIUS
                 8.125
                                                    6.250 5.875
                 5.500
                        5.125
   TEMPERATURE= 668.59 628.29 ***** 629.22 645.58 ***** *****
                623.58 635.16
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB----
   X
            P
                    X
                            P
 -8.571
         11.313
                 -5.125
                          16.977
 -8.400
         11.295
                 -5.125
                         16.853
 -8.400
         11.413
                 -5.125
                          17.230
                 -5.125
         11.475
 -8.400
                          16.824
 -8.400
         11.377
                 -1.650
                          22.031
 -8.318
         11.167
                 -1.650
                          22.215
 -8.065
         10.992
                 -1.650
                          22.338
         11.443
 -7.811
                 -1.650
                          21.591
 -7.558
         15.358
                  -.900
                          21.834
         *****
                  -.900
 -7.304
                          22.418
                  -.900
         16.898
 -7.051
                          22.432
 -6.798
         ****
                  -.900
                          22.043
 -6.544
         20.317
 -6.291
         21.126
 -6.037
         21.520
 -5.784
         22.466
 -1.650
         23.121
         23.509
 -1.650
 -1.650
         23.429
 -1.650
         22.818
  -.900
         22.552
  -.900
         23.020
  -.900
         22.912
```

والمقاملة وبالهاء والمقاوديني ياكترك فيلاصو ويويدا للوزني ويتنافي والمتارية

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SCAN: 9 TEST ID:870901013 THROTTLE:065

DISCHAI	RGE COI	NDITIONS	(CORREC	CTED):			
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	WI.OW	ANGLE
1	1	5.996	0.00	622.987	26.796	FROM	MIGUE
ī	2	5.996	1.16	621.548	25.709		
ī	3	5.996	2.32	621.264	26.055		
ī	4	5.996	3.48	623.003			
ī		5.996	4.65	623.772	27.901		
ī	5 6 7	5.996	5.81	624.738	28.070		
1	7	5.996	6.97		28.291		
1	8	5.996		624.631	28.124		
1	9		8.13	624.897	28.222		
1		5.996	9.29	624.561	28.459		
1	10	5.996	10.45	624.650	27.700		
7	AVG	C 207	0 00	623.717	27.618		
2	1	6.387	0.00	627.329	26.376		
2	2 3	6.387	1.16	625.581	26.736		
2	3	6.387	2.32	624.110	27.069		
2	4	6.387	3.48	629.423	28.400		
2	5 6 7	6.387	4.65	628.311	28.483		
2	6	6.387	5.81	627.991	28.657		
111112222222222333333333333333	7	6.387	6.97	629.030	28.685		
2	8	6.387	8.13	630.065	28.678		
2	9	6.387	9.29	629.501	28.898		
2	10	6.387	10.45	629.220	27.532		
2	AVG			628.155	28.021		
3	1	6.755	0.00	629.272	26.447		
3	2	6.755	1.16	626.718	25.993		
3	3	6.755	2.32	629.220	26.266		
3	4	6.755	3.48	631.760	28.518		
3	5 6 7	6.755	4.65	632.595	28.523		
3	6	6.755	5.81	632.397	28.784		
3	7	6.755	6.97	630.765	28.865		
3	8	6.755	8.13	631.013	28.919		
3	9	6.755	9.29	629.623	29.057		
3	10	6.755	10.45	630.595	28.067		
3	AVG			630.533	28.067		
4	1	7.104	0.00	635.956	26.717		
4	2	7.104	1.16	630.573	25.472		
4	2 3	7.104	2.32	629.907	25.958		
4	4	7.104	3.48	633.545			
4	5	7.104	4.65	634.444	28.484		
	6	7.104	5.81	633.639	28.596		
4 4	5 6 7 8	7.104	6.97	635.824	28.994		
4	Ŕ	7.104	8.13	634.702	29.000		
4	9	7.104	9.29	633.080	29.161		
4	10	7.104	10.45		29.539		
4	AVG	7.104	10.45	635.449	28.532		
4	AYU			633.870	28.222		

		DITIONS				
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	646.794	27.037	
5	2	7.437	1.16	638.374	25.717	
5	3	7.437	2.32	634.614	26.656	
5	4	7.437	3.48	638.052	28.731	
.5	5	7.437	4.65	637.261	28.847	
' 5	5	7.437	5.81	637.486	29.343	
5	7	7.437	6.97	639.685	29.342	
5	8	7.437	8.13	643.579	29.575	
5	9	7.437	9.29	644.097	29.693	
5	10	7.437	10.45	648.831	28.359	
5	AVG			640.956	28.484	
55555555666	1	7.756	0.00	660.666	26.480	
Š	2	7.756	1.16	642.211	26.165	
Š	2 3	7.756	2.32	639.725	27.122	
Ğ	4	7.756	3.48	644.223	28.800	
ě	ξ.	7.756	4.65	643.999	29.068	
6	5	7.756	5.81	645.925	29.688	
6	7	7.756	6.97	650.980	29.380	
6	8	7.756	8.13	652.603	29.542	
6	9	7.756	9.29	653.913	29.542	
6				671.115		
6 6	10	7.756	10.45		28.278	
7	AVG	0 063	0 00	650.524	28.554	
4	1	8.062	0.00	670.035	26.498	
7	2 3	8.062	1.16	653.562	26.433	
7 7	3 4	8.062	2.32	647.521	27.628	
<u>/</u>		8.062	3.48	652.688	28.845	
7	5	8.062	4.65	652.374	29.034	
7	6	8.062	5.81	654.922	29.732	
7	7	8.062	6.97	660.698	29.233	
7	8	8.062	8.13	663.615	29.584	
7	9	8.062	9.29	664.958	29.715	
7	10	8.062	10.45	676.258	28.937	
7	AVG			659.678	28.688	
8	1	8.356	0.00	682.207	27.617	
8 8 8	2	8.356	1.16	669.708	28.035	
8	3	8.356	2.32	660.997	29.010	
	4	8.356	3.48	665.835	28.895	
8	5	8.356	4.65	666.739	29.132	
8 8 8	5 6 7	8.356	5.81	669.576	29.977	
8	7	8.356	6.97	673.608	29.861	
8	8	8.356		677.235	29.741	
8	9	8.356		678.972	29.766	
8	10	8.356	10.45	684.932	29.575	
8	AVG			672.949	29.205	

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COMPRESSOR CONFIGURATION: PBS
                                  SCAN: 10
                                                    TEST ID:870901014
                                  THROTTLE: 075
NOMINAL % DESIGN SPEED:095
PERFORMANCE:
MEAS. WORK =1506.98 ISEN. EFFIC. = 83.037 POLYTROPIC EFFIC. =84.516
MEAS. FLOWR. = 34.015 CORR. FLOWR. = 54.839 COMPUTED FLOWRATE=53.719 MEASURED RPM=19580.0 CORR. RPM =19182.6 % DESIGN RPM = 94.86
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                              = 1.919
                                                                .960
D.P. TEMP. =450.029 P. COR. FAC. = 1.579 TEMP. COR. FACT. =
ATMOS. PRES. = 14.334 ATM.PRES.(S) = 14.334 REL. HUMIDITY
CALIBRATION PRESSURES (SONIX) = 9.0037 14.3345 29.3391
VENTURI PRESSURES:
   INLET (AVG=10.182, SONIX=10.182) = 10.182
                                               10.177
                                                       10.186
                                                              10.182
   THROAT (AVG= 9.232, SONIX= 9.230)=
                                       9.236
                                               9.230
                                                        9.236
                                                                9.230
                                        9.232
                                                9.230
                                                        9.232
                                                                9.231
                                        9.230
                                                9.230
                                                        9.232
                                                                9.232
PLENUM CONDITIONS:
               (AVG = 9.303, SONIX = 9.291) =
                                              9.307
                                                      9.299
   PRESSURES
   TEMPERATURES (AVG=540.42)= 541.20 541.20 540.62 540.06 540.62
                              540.32 539.50 538.97 541.29
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
             = 8.125
                       7.750
                               7.375 7.000 6.625 6.250
   RADIUS
                 5.500
                       5.125
              = 29.594 29.327 28.406 ***** 28.922 ***** 28.875
   PRESSURE
                28.278 28.278
   RADIUS
                 8.125
                       7.750
                               7.375 7.000 6.625 6.250
                 5.500 5.125
   TEMPERATURE= 673.38 631.11 ***** 630.99 648.29 ***** *****
                623.68 634.11
STATIC PRESSURES (CORRECTED):
 ----CASING----
                 ----HUB----
   X
            P
                  Х
                            P
 -8.571
         11.657 -5.125
                        17.152
        11.647 -5.125
 -8.400
                        16.993
        11.684 -5.125
 -8.400
                        17.351
 -8.400
        11.813 -5.125 16.969
 -8.400
        11.711
                 -1.650
                        22.276
        11.537
                 -1.650
 -8.318
                         22.442
                -1.650 22.560
 -8.065
        11.312
 -7.811
        11.844 -1.650 21.876
 -7.55º
        16.913 -.900 22.113
        *****
 -7.30
                 -.900 22.641
 -7.051
        17.924
                 -.900 22.675
 -6.798
                 -.900 22.311
        *****
         20.800
 -6.544
 -6.291
         21.511
 -6.037
         21.799
         22.764
 -5.784
 -1.650
        23.266
 -1.650
        23.602
 -1.650
        23.505
 -1.6^{-1}
        22.977
  -.900
        22.761
  -.900
        23,233
  -.900
        23.123
        22.488
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DISCHAR	RGE CON	DITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	623.843	26.946	
1	2	5.996	1.16	622.546	25.567	
1	3	5.996	2.32	621.193	25.640	
1	4	5.996	3.48	622.961	27.926	
1	5	5.996	4.65	624.620	28.161	
<u>1</u>	6	5.996	5.81	625.381	28.337	
ī	7	5.996	6.97	624.665	28.376	
ī	8	5.996	8.13	625.581	28.229	
ī	ğ	5.996	9.29	624.820	28.475	
1	10	5.996	10.45	625.117	27.672	
ī	AVG	3.750	10.45	624.197	27.649	
2	1	6.387	0.00	628.168	26.448	
2	2	6.387	1.16	626.403	26.330	
2	3		2.32	624.013	26.832	
2 2 2 2 2 2 2	4	6.387				
2	4	6.387	3.48	628.724	28.143	
2	5	6.387	4.65	629.856	28.613	
2	6	6.387	5.81	629.218	28.839	
ė	7	6.387	6.97	629.932	29.016	
2	8	6.387	8.13	631.260	28.789	
2	9	6.387		630.183	29.043	
2	10	6.387	10.45	630.925	27.730	
2	AVG			629.011	28.076	
3	1	6.755			26.615	
3	2	6.755			25.699	
3	3	6.755	2.32	629.793	25.836	
3	4	6.755	3.48	631.444	28.063	
3	5 6	6.755	4.65	635.177	28.583	
3	6	6.755	5.81	633.858	28.753	
3	7	6.755	6.97	632.340	29.047	
3	8	6.755		632.592	28.968	
3 3 3 3 3 3 3 3 3 3	9	6.755		631.597	29.407	
3	10	6.755		633.384	28.206	
3	AVG			632.204	28.083	
4	1	7.104	0.00		26.900	
4	2	7.104			25.050	
4	3	7.104		629.847	25.305	
4	4	7.104		631.714	27.780	
4	-	7.104		637.225	28.466	
4	5 6	7.104		635.235	28.987	
4	7	7.104		636.559	29.108	
4	8	7.104			29.209	
4	9	7.104			29.600	
4		7.104			28.332	
	10		10.45		28.121	
4	AVG			635.021	40.141	

DICCUST	CF COI	IDIMIONE	/ CORRE	nmmp\.			
PRØBE		NDITIONS RADIUS	ANGLE	TOTAL TEMP.	MOMAI DDWG		
1_	1	7.437	0.00	652.413	TOTAL PRES.	FLOW	ANGLE
Š		7.437	1.16	643.450	27.145		
ř	3	7.437	2.32	634.815	25.232		
ž	A	7.437	3.48	638.217	25.879		
Š	, ,	7.437	4.65		28.032		
, , , , , , , , , , , , , , , , , , ,	2 3 4 5 6 7	7.437	4.03 E 01	639.998	28.700		
5	7	7.437	5.81	637.129	29.366		
5	8		6.97	640.810	29.403		
5 E	9	7.437 7.437	8.13	646.536	29.609		
5 E	10		9.29	646.490	29.869		
3 E		7.437	10.45	655.629	28.484		
5 E	AVG	7 756	0 00	643.650	28.402		
É	1	7.756 7.756	0.00	667.317	26.479		
<u> </u>	2	7.756	1.16	648.533	25.489		
6		7.756	2.32	642.815	26.320		
Š	T .	7.756	3.48 4.65	646.368 645.757	28.171		
6	2 3 4 5 6 7	7.756	5.81	646.537	28.937		
š	7	7.756	6.97	652.379	29.726		
š	8	7.756	8.13	657.547	29.523		
š	9	7.756	9.29		29.581		
6	10	7.756	10.45	660.076 679.388	29.758		
555555555666666666677	AVG	1.150	10.45	654.791	28.680		
7		8.062	0.00	677.439	28.489		
ź	1 2 3 4 5 6	8.062	1.16	658.696	26.566		
ŕ	รั	8.062	2.32	654.125	26.249		
Ź	4	8.062	3.48	657.544	26.729		
לֹ	5	8.062	4.65	655.935	28.370		
Ź	6	8.062	5.81	658.416	29.039		
Ź	ž	8.062	6.97	663.361	29.700 29.454		
ż	8	8.062	8.13	668.596	29.624		
Ź	9	8.062	9.29	670.023			
Ź	10	8.062	10.45	683.555	29.851 29.386		
ż	AVG	0.002	10.43	664.910			
7 8 8 8	1	8.356	0.00	689.548	28.666 27.677		
Ř	$\tilde{2}$	8.356	1.16	674.413	27.639		
8	2 3	8.356	2.32	669.687	28.361		
8	4	8.356	3.48	673.739	28.923		
ě	5	8.356	4.65	670.472	29.211		
š	6	8.356	5.81	674.448	30.244		
8	5 6 7 8 9	8.356	6.97	676.515	30.092		
8	8	8.356	8.13	680.808	30.034		
8	ğ	8.356	9.29	682.682	30.123		
8 8 8 8 8	10	8.356	10.45	691.227	29.999		
8	ĀŸG			678.374	29.306		
-				0,0.5,4	29.300		

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COMPRESSOR CONFIGURATION: PBS
                                   SCAN: 11
                                                     TEST ID:870901015
NOMINAL % DESIGN SPEED:095
                                   THROTTLE:080
PERFORMANCE:
MEAS. WORK =1496.09
                     ISEN. EFFIC. = 81.430
                                            POLYTROPIC EFFIC.=83.039
MEAS. FLOWR. = 33.349 CORR. FLOWR. = 53.713
                                             COMPUTED FLOWRATE=52.621
                                 =19185.2
MEASURED RPM=19572.0 CORR. RPM
                                             % DESIGN RPM
                                                               = 94.87
                     GAS CONSTANT= 53.351
                                             PRESSURE RATIO
                                                               = 1.912
SPEC. HEAT = 1.400
D.P. TEMP.
            =449.998
                     P. COR. FAC.= 1.579
                                             TEMP. COR. FACT. =
                                                                  .961
                      ATM.PRES.(S) = 14.334
ATMOS. PRES. = 14.331
                                             REL. HUMIDITY
                                                                  .027
CALIBRATION PRESSURES (SONIX) = 9.0024 14.3337
                                                    29.3366
VENTURI PRESSURES:
         (AVG=10.145, SONIX=10.150) = 10.149
                                               10.142
                                                        10.140
                                                                10.147
   INLET
                                                         9.235
                                        9.235
                                                 9.229
                                                                 9.229
   THROAT (AVG = 9.234, SONIX = 9.234) =
                                        9.236
                                                 9.234
                                                         9.236
                                                                 9.236
                                                 9.234
                                        9.234
                                                         9.236
                                                                 9.234
PLENUM CONDITIONS:
                 (AVG = 9.307, SONIX = 9.291) =
                                               9.306
                                                       9.308
   PRESSURES
   TEMPERATURES (AVG=539.84)= 540.48 540.74 539.89 539.44 540.03
                               539.74 539.03 538.56 540.62
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                                7.375 7.000 6.625
                                                     6.250
              = 8.125
                        7.750
                                                             5.875
   RADIUS
                  5.500
                         5.125
              = 29.923 29.333 28.458 ****** 28.876 ****** 28.997
   PRESSURE
                 28.237 28.318
                         7.750
                  8.125
                                7.375 7.000 6.625
   RADIUS
                                                     6.250
                  5.500
                         5.125
   TEMPERATURE= 676.66 632.31 ***** 631.56 649.09 ***** *****
                 623.89 634.95
STATIC PRESSURES (CORRECTED):
 ----CASING----
                  ----HUB----
   X
            P
                     X
                             P
 -8.571
         11.898
                 -5.125
                          17.188
         11.845
 -8.400
                 -5.125
                          17.053
 -8.400
         11.916
                 -5.125
                          17.393
 -8.400
         12.031
                  -5.125
                          17.008
 -8.400
         11.890
                 -1.650
                          22.339
         11.799
                 -1.650
 -8.318
                          22.449
         11.580
                 -1.650
                          22.598
 -8.065
                          21.948
         12,131
                  -1.650
 -7.811
         17.527
                   -.900
 -7.558
                          22.212
 -7.304
         *****
                  -.900
                          22.696
         18.455
 -7.051
                  -.900
                          22.751
 -6.798
         ****
                   -.900
                          22.416
 -6.544
         21.045
 -6.291
         21.701
 -6.037
          21.880
 -5.784
          22.858
 -1.650
          23.255
 -1.650
         23.591
 -1.650
          23.511
 -1.650
          23.000
  -.900
          22.836
  -.900
          23.274
  -.900
          23.181
```

and the second s

-.900

DISCHA	RGE COI	NDITIONS	(CORREC	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	624.638	26.843	
$\bar{1}$	2	5.996	1.16	623.591	25.448	
ī	3	5.996	2.32	621.190	25.512	
ī	4	5.996	3.48	622.847	27.794	
ī	5	5.996	4.65	625.339	28.252	
ī	6	5.996	5.81	625.980	28.324	
ī	7	5.996	6.97	625.040	28.516	
ī	8	5.996	8.13	626.187	28.245	
ī	9	5.996	9.29		28.487	
ī	10	5.996	10.45	625.557	27.744	
1	AVG	3.330	10.43	624.653	27.651	
1 2 2	1	6.387	0.00	629.456		
2	2	6.387	1.16	627.272	26.435	
2	3	6.387	2.32	623.754	26.090 26.510	
2	4	6.387	3.48	627.943	26.510	
2 2	5	6.387	4.65	630.823	27.757	
2	6	6.387	5.81	630.958	28.718	
2 2	7				28.807	
2	8	6.387	6.97 8.13	630.414 631.995	29.058	
2 2 2 2 3 3 3	9	6.387			28.899	
2	10	6.387	9.29 10.45	630.153	29.049	
2		6.387	10.45	631.857	27.826	
2	AVG	6 755	0 00	629.642	28.035	
3	1 2	6.755	0.00	632.587	26.573	
3	2	6.755	1.16	629.465	25.442	
3	3	6.755	2.32	630.729	25.408	
3	4	6.755	3.48	631.265	27.250	
3	5	6.755	4.65	636.839	28.604	
3	6	6.755	5.81	635.699	28.721	
3	7	6.755	6.97	634.145	29.090	
3	8	6.755	8.13	634.285	29.038	
3 3 3 3 3	9	6.755	9.29	632.412	29.521	
3	10	6.755	10.45	634.670	28.253	
3	AVG	7 101		633.457	28.006	
4	1	7.104	0.00	639.800	26.957	
4	2	7.104	1.16	634.659	24.940	
4	3	7.104	2.32	629.194	24.982	
4	4	7.104	3.48	631.400	26.952	
4	5	7.104	4.65	637.965	28.348	
4	5 6 7	7.104	5.81	636.580	28.747	
4	/	7.104	6.97	637.833	29.061	
4	8	7.104	8.13	635.513	29.212	
4	9	7.104	9.29	635.025	29.559	
4	10	7.104	10.45	639.408	28.392	
4	AVG			636.043	27.997	

DISCHARGE CONDITIONS (CORRECTED): PROBE RAKE RADIUS ANGLE TOTAL TEMP. TOTAL PRES. FLOW ANGLE 5 1 7.437 0.00 657.636 27.067 5 7.437 1.16 646.519 25.053 5 3 7.437 2.32 25.376 635.026 5 4 7.437 3.48 637.945 27.329 5 5 7.437 4.65 640.992 28.520 5 6 7.437 5.81 638.206 29.093 5 7 7.437 6.97 641.971 29.310 5 8 8.13 7.437 647.256 29.392 5 9 7.437 9.29 648.043 29.849 5 10 7.437 10.45 661.658 28.453 5 **AVG** 645.684 28.214 6 0.00 1 7.756 672.156 26.294 2 6 7.756 1.16 651.773 25.221 3 6 7.756 2.32 644.021 25.525 6 4 3.48 7.756 646.679 27.364 5 6 4.65 7.756 647.779 28.764 6 6 7.756 5.81 647.803 29.603 6 7 7.756 6.97 653.260 29.488 6 8 7.756 659.788 663.286 8.13 29.502 9 6 7.756 9.29 29.838 6 7.756 10 10.45 684.510 28.697 6 **AVG** 657.385 28.325 7 1 8.062 0.00 681.295 26.536 7 2 8.062 1.16 662.656 26.044 7 3 8.062 2.32 656.715 26.165 7 4 8.062 3.48 658.942 27.897 7 5 8.062 4.65 658.034 28.829 7 6 8.062 5.81 660.681 29.584 7 7 6.97 8.062 664.787 29.479 7 8.062 8 8.13 670.103 29.530 7 9 8.062 9.29 671.202 29.890 7 10 8.062 10.45 687.707 29.469 7 **AVG** 667.412 28.549 8 1 8.356 0.00 692.030 27.748 8 2 8.356 1.16 677.738 27.407 8.356 2.32 8 3 674.197 28.008 8.356 8 4 3.48 677.338 28.831 5 8 4.65 8.356 673.223 29.162 8 6 8.356 5.81 676.322 30.011 8 7 8.356 6.97 678.419 30.041 8 8 8.356 8.13 681.844 29.889 9 8 8.356 9.29 683.657 30.258 8 10 8.356 10.45 694.868 30.051 8 AVG 680.994 29,226

```
COMPRESSOR CONFIGURATION: PBS
                                   SCAN: 4
                                                     TEST ID:870828015
NOMINAL % DESIGN SPEED:090
                                   THROTTLE:000
PERFORMANCE:
MEAS. WORK =1340.77
                      ISEN. EFFIC. = 88.604 POLYTROPIC EFFIC. =89.440
MEAS. FLOWR. = 39.485
                      CORR. FLOWR. = 57.522
                                            COMPUTED FLOWRATE=55.631
MEASURED RPM=18688.0 CORR. RPM =18195.1
                                            % DESIGN RPM
                                                               = 89.98
                      GAS CONSTANT= 53.351
           = 1.400
SPEC. HEAT
                                             PRESSURE RATIO
                                                               = 1.719
D.P. TEMP.
            =449.968
                      P. COR. FAC. = 1.418
                                             TEMP. COR. FACT. =
                                                                  .948
                      ATM.PRES.(S) = 14.274
ATMOS. PRES. = 14.274
                                             REL. HUMIDITY
                                                                   .021
CALIBRATION PRESSURES (SONIX)=
                                9.0021 14.2744 29.2743
VENTURI PRESSURES:
   INLET (AVG=11.433, SONIX=11.426)=
                                       11.427
                                                11.431
                                                        11.437
                                                                11.436
                                                        10.259
   THROAT (AVG=10.261, SONIX=10.264) =
                                       10.259
                                                10.255
                                                                10.255
                                       10.263
                                                10.262
                                                        10.262
                                                                10.262
                                       10.264
                                                10.264
                                                        10.264
                                                                 10.264
PLENUM CONDITIONS:
                (AVG=10.369, SONIX=10.349) =
   PRESSURES
                                              10.358 10.361
   TEMPERATURES (AVG=547.19)= 547.31 547.86 546.87 547.01 547.72
                               547.45 546.43 546.22 547.84
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                 8.125
                         7.750
   RADIUS
                                7.375
                                       7.000
                                               6.625
                                                     6.250
                                                             5.875
                  5.500
                         5.125
                24.830 24.982 24.787 ***** 26.091 ***** 25.874
   PRESSURE
                 26.149 26.023
   RADIUS
                  8.125
                         7.750
                                7.375
                                      7.000
                                              6.625
                                                     6.250
                                                             5.875
                  5.500
                         5.125
   TEMPERATURE= 633.35 611.11 ***** 613.74 619.03 ***** *****
                 611.61 613.38
STATIC PRESSURES (CORRECTED):
 ----CASING----
                  ----HUB----
            P
                     X
   X
                             p
 -8.571
         11.178
                 -5.125
                          15.677
 -8.400
         11.117
                 -5.125
                          15.569
         11.133
 -8.400
                 -5.125
                          15.919
 -8.400
         11.121
                 -5.125
                          15.544
 -8.400
         11.013
                  -1.650
                          17.939
 -8.318
         11.001
                 -1.650
                          18.491
         10.834
 -8.065
                 -1.650
                          18.348
         10.944
 -7.811
                  -1.650
                          17.455
 -7.558
         11.986
                  -.900
                          17.645
 -7.304
         *****
                  -.900
                          18.347
                  -.900
 -7.051
         12.647
                          18.408
 -6.798
         *****
                  -.900
                          17.862
 -6.544
         16.683
 -6.291
         18.000
 -6.037
         18.882
 -5.784
         19.725
 -1.650
         19.544
 -1.650
         20.026
 -1.650
         19.964
 -1.650
         19.377
  -.900
         18.781
  -.900
         19.300
  -.900
         19.095
  -.900
         18.452
```

DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	614.506	23.906	
1	2	5.996	1.16	611.962	23.004	
1	3	5.996	2.32	608.660	24.247	
1	4	5.996	3.48	611.467	25.647	
1	5	5.996	4.65	609.372	26.133	
1	6	5.996	5.81	611.152	26.266	
1111122222222223333333333333	7	5.996	6.97	611.381	26.140	
1	8	5.996	8.13	611.788	26.277	
1	9	5.996	9.29	611.790	26.308	
1	10	5.996	10.45	611.909	25.158	
1	AVG			611.368	25.400	
2	1	6.387	0.00	609.115	24.139	
2	2 3	6.387	1.13		25.960	
2	3	6.387	2.32	609.537	26.006	
2	4	6.387	3.48	611.859	25.965	
2	5	6.387	4.65	611.780	25.964	
2	6	6.387	5.81	613.265	26.060	
2	7	6.387	6.97	612.371	26.075	
2	8	6.387	8.13	612.643	26.165	
2	9	6.387	9.29	611.214	26.147	
2	10	6.387	10.45	613.246	24.888	
2	AVG			611.447	25.764	
3	1	6.755	0.00	609.651	24.519	
3	2 3 4	6.755	1.16	611.040	26.054	
3	3	6.755	2.32	610.526	25.935	
3	4	6.755	3.48	612.312	25.829	
3	5 6	6.755	4.65	614.107	25.912	
3	9	6.755	5.81	615.010	26.094	
3	7	6.755	6.97	612.599	26.058	
3	8	6.755	8.13	613.512	26.265	
3	9	6.755	9.29	612.489	26.304	
3	10	6.755	10.45	613.563 612.501	24.696	
3	AVG	7 104	0 00		25.791	
4	1	7.104	0.00 1.16	610.611	24.923 25.905	
4 4	2 3	7.104 7.104	2.32	610.621 612.288	25.905	
4	4	7.104	3.48	615.599	25.880	
	5	7.104	4.65	614.252	25.873	
4 4	5	7.104	5.81	614.252	26.108	
4	6 7	7.104	6.97	614.736	26.017	
4	8	7.104	8.13	613.083	26.226	
4	9	7.104	9.29	612.458	26.226	
4	10	7.104		613.791	24.741	
4	AVG		10.42	613.791	25.808	
*	AVG			013.103	45.000	

SCAN: 4
THROTTLE:000

TEST ID:870828015

DISCHA	RGE CO	NDITIONS	(CORRE	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	612.120	25.003	
5	2	7.437	1.16	612.504	25.800	
5	3	7.437	2.32	612.507	25.826	
5	4	7.437	3.48	614.270	25.664	
5	5	7.437	4.65	615.799	25.690	
Š	5 6	7.437	5.81	616.178	25.862	
Š	7	7.437	6.97	614.411	25.747	
555555555	8	7.437	8.13	615.314	25.924	
5	9	7.437	9.29	614.581	26.088	
Š	10	7.437	10.45			
5	AVG	7.437	10.45	616.463	24.531	
6		7 756	0 00	614.408	25.628	
6	1	7.756	0.00	615.282	25.072	
6	2	7.756	1.16	612.059	25.676	
6	3	7.756	2.32	613.856	25.554	
6	4	7.756	3.48	615.865	25.496	
6	5 6	7.756	4.65	617.221	25.598	
6	6	7.756	5.81	618.454	25.756	
6	7	7.756	6.97	617.588	25.552	
6	8	7.756	8.13	619.274	25.738	
6	9	7.756	9.29	619.271	25.722	
6	10	7.756	10.45	621.781	24.414	
6	AVG			617.029	25.470	
7	1	8.062	0.00	625.824	24.102	
7	2	8.062	1.16	618.010	25.459	
7	3	8.062	2.32	618.025	25.554	
7	4	8.062	3.48	619.985	25.323	
7	5	8.062	4.65	623.398	25.224	
7	5 6	8.062	5.81	625.209	25.441	
7	7	8.062	6.97	627.387	25.063	
7	8	8.062	8.13	629.863	25.339	
7	9	8.062	9.29	629.600	25.227	
7	10	8.062	10.45	634.388	24.219	
7	AVG			625.035	25.115	
8	1	8.356	0.00	640.596	24.055	
8	2	8.356	1.16	624.960	25.171	
8 8	3	8.356	2.32	627.440	25.554	
8	4	8.356	3.48	630.368	25.294	
		8.356	4.65	636.173	25.016	
8	5 6	8.356	5.81	639.231	25.290	
8 8 8 8	ž	8.356	6.97	642.534	25.290	
8	8	8.356	8.13	642.058	25.124	
8	9	8.356	9.29	643.163	25.163	
8	10	8.356	10.45	644.132	24.598	
8	AVG	0.000	TO . 47	636.924	25.041	
•	۷ 0			030.344	23.041	

```
SCAN: 5
                                                         TEST ID:870828017
COMPRESSOR CONFIGURATION: PBS
                                      THROTTLE: 010
NOMINAL & DESIGN SPEED:090
PERFORMANCE:
MEAS. WORK =1337.71 ISEN. EFFIC.= 89.195 POLYTROPIC EFFIC.=90.006
MEAS. FLOWR.= 38.648 CORR. FLOWR.= 57.157 COMPUTED FLOWRATE=55.335 MEASURED RPM=18670.0 CORR. RPM =18179.1 % DESIGN RPM = 89.90 SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO = 1.741 D.P. TEMP. =450.393 P. COR. FAC.= 1.440 TEMP. COR. FACT. = .948 ATMOS. PRES.= 14.273 ATM.PRES.(S)= 14.275 REL. HUMIDITY = .022
CALIBRATION PRESSURES (SONIX) = 9.0035 14.2746 29.2746
VENTURI PRESSURES:
    INLET (AVG=11.241, SONIX=11.236) = 11.233 11.237 11.248 11.245
    THROAT (AVG=10.101, SONIX=10.105) = 10.094 10.096
                                                            10.094
                                                                      10.096
                                           10.103
                                                    10.102
                                                             10.103
                                                                      10.103
                                           10.105
                                                    10.105
                                                            10.104
                                                                      10.104
PLENUM CONDITIONS:
    PRESSURES (AVG=10.204, SONIX=10.185) = 10.207 10.200
    TEMPERATURES (AVG=547.10) = 547.50 547.79 546.77 546.77 547.65
                                  547.50 546.21 546.07 547.65
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
                = 8.125 7.750
                                   7.375 7.000 6.625
                                                         6.250
                                                                   5.875
                   5.500 5.125
                = 25.400 25.481 25.123 ***** 26.314 ***** 25.970
    PRESSURE
                  26.204 26.076
                          7.750 7.375 7.000 6.625
                                                          6.250 5.875
    RADIUS
                = 8.125
                   5.500 5.125
    TEMPERATURE= 633.62 612.23 ***** 612.46 620.16 ***** *****
                  611.58 613.49
STATIC PRESSURES (CORRECTED):
 ----CASING---- ----HUB----
             P
                              P
   X
                    X
         11.215 -5.125 15.887
 -8.571
 -8.400 11.149 -5.125 15.755
 -8.400
         11.212
                   -5.125 16.123
 -8.400
         11.177
                   -5.125 15.724
         11.017
  -8.400
                   -1.650
                            18.596
         11.053
  -8.318
                   -1.650
                            19.091
  -8.065
          10.868
                   -1.650
                            18.967
  -7.811
          10.998
                   -1.650
                            18.117
  -7.558 12.086
                   -.900 18.330
                   -.900 19.005
  -7.304 *****
                   -.900 19.006
  -7.051 13.720
  -6.798 *****
                   -.900 18.516
  -6.544 17.560
  -6.291
          18.463
  -6.037
          19.319
  -5.784
          20.027
  -1.650
          20.085
  -1.650
          20.556
  -1.650
          20.492
          19.871
  -1.650
          19.345
   -.900
   -.900
          19.862
   -.900
           19.699
   -.900
           19.029
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DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE		RADIUS		TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	614.717	24.272	
1	2	5.996	1.16	611.828	23.569	
1	3	5.996	2.32	609.463	24.890	
1	4	5.996	3.48	612.177	25.733	
1	5	5.996	4.65	610.166	26.119	
1	5	5.996	5.81	612.008	26.259	
1	7	5.996	6.97	611.992	26.122	
1	8	5.996	8.13	612.139	26.252	
1	9	5.996	9.29	611.751	26.292	
1	10	5.996	10.45	612.525	25.408	
1	AVG			611.855	25.554	
2 2	1	6.387	0.00	610.622	23.963	
2	2	6.387	1.16	609.472	25.944	
2	3	6.387	2.32	610.268	26.163	
2 2 2	4	6.387	3.48	612.080	26.060	
2	5	6.387	4.65	612.976	26.053	
2	6	6.387	5.81	613.493	26.185	
2 2	7	6.387	6.97	613.355	26.136	
2	8	6.387	8.13	613.609	26.274	
2	9	6.387		612.212	26.235	
2	10	6.387	10.45	613.605	25.210	
2	AVG			612.188	25.857	
3 3 3 3 3 3 3 3 3 3	1	6.755	0.00	611.860	24.525	
3	2	6.755	1.16		26.273	
3	3	6.755	2.32	611.772	25.996	
3	4	6.755	3.48		26.048	
3	5	6.755	4.65	614.229	26.071	
3	7	6.755	5.81	616.137	26.229	
3		6,755	6.97	614.254	26.260	
3	8	6.755		614.628	26.332	
3 2	9	6.755	9.29	613.642	26.590	
3	10 AVG	6.755	10.45	614.014 613.569	24.972	
4	1	7.104	0 00	611.926	25.957 24.428	
4	2	7.104				
4	3	7.104	2.32	611.763	26.157 26.170	
4	4	7.104	3.48	616.442		
4	-	7.104	4.65	615.818	26.091 26.015	
4	5 6	7.104		615.861	26.329	
4	7	7.104	6.97	615.338	26.262	
4	8	7.104	8.13	615.407	26.398	
4	9	7.104		614.117	26.667	
4	10	7.104	10.45	615.639	25.009	
4	AVG			614.572	25.984	
-				V	20.504	

8

AVG

DISCHARGE CONDITIONS (CORRECTED): PROBE RAKE TOTAL TEMP. RADIUS ANGLE TOTAL PRES. FLOW ANGLE 1 7.437 0.00 614.500 25.179 5 2 7.437 1.16 615.666 26.074 5 3 7.437 2.32 614.262 26.031 5 4 7.437 3.48 616.508 25.909 5 7.437 4.65 617.035 26.050 5 6 7.437 5.81 617.661 26.227 5 7 7.437 6.97 617.277 25.990 5 8 7.437 8.13 617.171 26.116 7.437 9 9.29 615.435 26.232 5 10 10.45 7.437 616.650 24.708 5 **AVG** 616.223 25.869 6 1 7.756 0.00 617.574 25.209 26.056 6 2 7.756 1.16 615.632 6 7.756 2.32 26.195 3 616.037 6 4 7.756 3.48 618.195 25.885 7.756 6 5 4.65 619.367 25.949 6 26.166 6 5.81 7.756 620.326 6 7 7.756 6.97 619.622 26.055 8.13 26.259 6 620.880 8 7.756 9.29 6 9 7.756 621.258 26.270 6 623.566 10 7.756 10.45 24.715 6 **AVG** 619.212 25.894 7 1 8.062 0.00 627.646 24.383 7 2 8.062 1.16 620.168 25.956 7 3 8.062 2.32 619.495 26.195 7 4 8.062 3.48 621.151 25.809 7 5 4.65 624.339 25.740 8.062 7 627.115 6 8.062 5.81 26.038 7 6.97 629.074 25.652 7 8.062 631.948 7 8 8.062 8.13 25.918 9 7 8.062 9.29 632.069 25.804 7 10 8.062 10.45 637.119 24.705 7 **AVG** 626.864 25.647 641.999 8 8.356 0.00 24.593 1 2 8.356 8 1.16 628.816 25.723 8 3 8.356 2.32 629.676 26.195 8 4 8.356 3.48 632.564 25.777 8 5 4.65 638.819 25.395 8.356 8 6 8.356 5.81 642.201 26.082 8 7 8.356 6.97 644.656 25.649 8 8.13 645.271 25.766 8 8.356 8 9 8.356 9.29 645.916 25.906 8 646.988 10 8.356 10.45 25.326

639.589

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COMPRESSOR CONFIGURATION: PBS
                                  SCAN: 6
                                                   TEST ID:870828020
NOMINAL & DESIGN SPEED: 090
                                  THROTTLE:040
PERFORMANCE:
MEAS. WORK =1337.89
                    ISEN. EFFIC.= 89.427
                                           POLYTROPIC EFFIC.=90.243
MEAS. FLOWR. = 37.374 CORR. FLOWR. = 56.214
                                           COMPUTED FLOWRATE=54.681
MEASURED RPM=18656.0 CORR. RPM
                                =18174.3 % DESIGN RPM
                                                             = 89.87
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                             = 1.771
           =450.089 P. COR. FAC. = 1.465 TEMP. COR. FACT. =
D.P. TEMP.
ATMOS. PRES. = 14.275 ATM.PRES.(S) = 14.276 REL. HUMIDITY
                                                               .022
CALIBRATION PRESSURES (SONIX) = 9.0018 14.2764 29.2774
VENTURI PRESSURES:
                                                      11.025
   INLET (AVG=11.020, SONIX=11.020) = 11.016
                                             11.024
                                                              11.015
                                              9.934
   THROAT (AVG= 9.938, SONIX= 9.938)=
                                      9.943
                                                      9.943
                                                              9.934
                                       9.939
                                               9.937
                                                       9.939
                                                               9.938
                                       9.939
                                               9.939
                                                       9.939
                                                               9.938
PLENUM CONDITIONS:
   PRESSURES (AVG=10.028, SONIX=10.012) = 10.033
                                                    10.024
   TEMPERATURES (AVG=546.57)= 547.00 547.14 546.29 546.14 547.00
                              546.85 545.70 545.70 547.29
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
              = 8.125
                       7.750
                               7.375 7.000 6.625 6.250
                                                           5.875
                 5.500
                       5.125
   PRESSURE
              = 26.320 26.276 25.569 ***** 26.674 ***** 26.301
                26.260 26.188
                        7.750
                 8.125
                              7.375 7.000 6.625
   RADIUS
                                                   6.250
                 5.500
                       5.125
   TEMPERATURE= 640.22 614.09 ***** 614.31 622.82 ***** *****
                612.18 617.32
STATIC PRESSURES (CORRECTED):
 ----CASING----
                ----HUB----
            P
   X
                    X
                            P
 -8.571
         11.331
                -5.125
                         16.212
 -8.400
         11.293
                -5.125
                         16.084
 -8.400
         11.316
                 -5.125
                         16.430
 -8.400
                 -5.125
        11.334
                         16.068
                         19.464
 -8.400
        11.195
                -1.650
 -8.318
        11.164
                -1.650
                         19.881
 -8.065
        11.014
                 -1.650
                         19.801
 -7.811
         11.220
                -1.650
                         19.021
                -.900
 -7.558
        12.772
                         19.265
 -7.304
        *****
                 -.900
                        19.891
                 -.900
 -7.051
        15.196
                        19.856
         ****
                  -.900
                         19.422
 -6.798
 -6.544
         18.406
 -6.291
         19.227
 -6.037
        19.919
 -5.784
         20.544
 -1.650
         20.795
 -1.650
         21.262
 -1.650
         21.210
 -1.650
         20.578
  -.900
        20.130
  -.900
        20.598
  -.900
         20.490
  -.900
        19.812
```

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DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	613.685	24.884	
1	2	5.996	1.16	611.488	23.933	
ī	3	5.996	2.32	610.569	25.328	
ī	4	5.996	3.48	613.190	26.117	
ī		5.996	4.65	611.003	26.171	
	6	5.996	5.81	612.698	26.326	
1	5 6 7					
1		5.996	6.97		26.208	
1.	8	5.996	8.13	612.700	26.335	
1	9	5.996	9.29	612.357	26.405	
1	10	5.996	10.45	613.319	25.872	
1	AVG			612.359	25.807	
2	1	6.387	0.00	611.960	23.969	
2	2	6.387	1.16	611.175	25.852	
1 2 2 2 2	3	6.387	2.32	612.421	26.291	
2	4	6.387	3.48	614.223	26.345	
2	· 5	6.387	4.65	614.350	26.322	
2	6 7	6.387	5.81	615.519	26.459	
2	7	6.387	6.97		26.387	
2	8	6.387	8.13		26.533	
22222233333333333333	9	6.387	9.29		26.511	
2	10	6.387		614.983	25.490	
2	AVG	0.507	20.40	614.137	26.063	
2		6.755	0.00	616.112	24.292	
3	1 2	6.755	1.16	611.820	26.068	
3	3		2.32		26.598	
3	3	6.755			26.292	
3	4	6.755				
3	5	6.755			26.369	
3	6	6.755		617.631	26.595	
3	7	6.755			26.498	
3	8	6.755			26.804	
3	9	6.755			26.890	
3	10	6.755	10.45		25.724	
3	AVG			615.657	26.255	
4	1	7.104			24.454	
4	2.	7.104			26.568	
4	3	7.104	2.32	613.879	26.532	
4	4	7.104	3.48	617.592	26.533	
4	5	7.104			26.442	
4	6	7.104			26.760	
4	ž	7.104			26.588	
4	8	7.104			26.800	
4	9	7.104			26.834	
4	10	7.104			25.450	
4	AVG		TO - 40	616.960	26.338	
4	AVG	•		010.300	20.330	

DISCHA	RGE CON	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	618.153	24.829	
5	2	7.437	1.16	619.122	26.533	
5	3	7.437	2.32	616.757	26.550	
5	4	7.437	3.48	618.717	26.311	
5		7.437	4.65	619.346	26.426	
5555555555	5 6 7	7.437	5.81	619.962	26.657	
5	7	7.437	6.97	619.309	26.356	
5	8	7.437	8.13	619.837	26.622	
5	ğ	7.437	9.29	618.496	26.826	
5	10	7.437	10.45	619.708	25.261	
š	AVG	7.457	10.43	618.943	26.269	
6	1	7.756	0.00	621.277	24.933	
š	2	7.756	1.16	618.857	26.566	
š	ร	7.756	2.32	618.134	26.515	
6 6 6	3 4	7.756	3.48	621.397		
6	T.	7.756	4.65		26.372	
6	5 6			621.536	26.489	
6 6	7	7.756	5.81	623.404	26.787	
6	8	7.756	6.97	622.683	26.652	
6		7.756	8.13	623.743	26.863	
0	9	7.756	9.29	625.029	26.755	
6	10	7.756	10.45	630.104	25.150	
6	AVG	0 000		522.551	26.343	
7	1	8.062	0.00	633.378	24.859	
7	2	8.062	1.16	624.205	26.304	
7	3	8.062	2.32	621.724	26.515	
7	4	8.062	3.48	623.640	26.414	
7	5	8.062	4.65	627.298	26.442	
7	6	8.062	5.81	630.798	26.750	
7	7	8.062	6.97	634.169	26.554	
7	8	8.062	8.13	636.947	26.779	
7	9	8.062	9.29	637.211	26.693	
7	10	8.062	10.45	642.197	25.426	
7	AVG			631.034	26.304	
8	1	8.356	0.00	645.830	25.188	
8	2	8.356	1.16	634.253	26.393	
8	2 3	8.356	2.32	632.646	26.515	
8	4	8.356	3.48	638.058	26.421	
8	5	8.356	4.65	642.439	26.156	
8	5 6 7	8.356	5.81	645.692	26.640	
8	7	8.356	6.97	648.774	26.384	
8 8 8	8	8.356	8.13	649.423	26.495	
8	9	8.356	9.29	649.563	26.585	
8	10	8.356	10.45	650.103	26.145	
8	ĀVG	0.000	20.40	643.620	26.306	
•	2110			043.040	20.300	

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COMPRESSOR CONFIGURATION: PBS
                                SCAN: 12
                                                TEST ID:870901020
NOMINAL % DESIGN SPEED:090
                                 THROTTLE: 035
PERFORMANCE:
MEAS. WORK =1318.02 ISEN. EFFIC.= 88.506 POLYTROPIC EFFIC.=89.410
MEAS. FLOWR. = 36.182 CORR. FLOWR. = 55.390 COMPUTED FLOWRATE=53.842
MEASURED RPM=18540.0 CORR. RPM =18184.0 % DESIGN RPM
                                                          = 89.92
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                           = 1.791
D.P. TEMP.
          =449.968 P. COR. FAC.= 1.501 TEMP. COR. FACT. = .962
ATMOS. PRES. = 14.332 ATM.PRES.(S) = 14.332 REL. HUMIDITY
                                                             .028
CALIBRATION PRESSURES (SONIX) = 9.0025 14.3330 29.3376
VENTURI PRESSURES:
                                                   10.720
   INLET (AVG=10.722, SONIX=10.722) = 10.725
                                            10.724
                                                            10.719
                                              9.696
                                                    9.700
   THROAT (AVG= 9.703, SONIX= 9.703)=
                                    9.700
                                                             9.696
                                                     9.704
                                      9.707
                                              9.705
                                                             9.706
                                      9.704
                                              9.704
                                                     9.705
                                                             9.705
PLENUM CONDITIONS:
                                                   9.791
   PRESSURES (AVG= 9.787, SONIX= 9.774)=
                                            9.782
   TEMPERATURES (AVG=539.22) = 539.72 540.01 539.01 538.72 539.57
                             539.28 538.28 538.22 540.16
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
             = 8.125
                      7.750 7.375 7.000 6.625 6.250 5.875
                5.500
                       5.125
              = 26.893 26.768 25.852 ***** 26.912 ***** 26.471
   PRESSURE
               26.523 26.367
                       7.750
   RADIUS
               8.125
                             7.375 7.000 6.625 6.250 5.875
                5.500 5.125
   TEMPERATURE= 645.17 615.82 ***** 616.46 624.88 ***** *****
               612.70 618.81
STATIC PRESSURES (CORRECTED):
 ----CASING---- ----HUB-----
           P
                 X
                           P
   Х
        11.488
 -8.571
                -5.125
                        16.415
 -8.400 11.475
                -5.125
                        16.304
        11.538
 -8.400
                -5.125
                        16.637
                        16,286
 -8.400
        11.585
                -5.125
        11.399
                        20.134
 -8.400
                -1.650
        11.360
                -1.650
                        20.526
 -8.318
 -8.065 11.197
                        20.454
                -1.650
 -7.811 11.520
                -1.650
                        19.733
 -7.558 13.961
                 -.900
                        19.965
 -7.304
        *****
                 -.900 20.532
                 -.900
 -7.051
        15.767
                        20.483
 -6.798
        *****
                 -.900
                        20.098
        19.025
 -6.544
        19.736
 -6.291
 -6.037
        20.302
 -5.784
        20.887
 -1.650
        21.328
 -1.650
         21.774
 -1.650
         21.738
 -1.650
        21.087
  -.900
        20.720
  -.900
        21.188
  -.900
        21.093
  -.900
        20.407
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DISCHAI	RGE COI	NDITIONS	(CORRE	TTED):			
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	ET OM	ANGLE
1	1	5.996	0.00	613.312	25.303	I DOM	MINGUE
1	2	5.996	1.16	611.345	24.251		
ī	3	5.996	2.32	611.235			
ī	4	5.996	3.48	614.182	25.207		
ī		5.996	4.65	613 000	26.290		
	5 6 7			612.000	26.307		
±	7	5.996	5.81	613.460	26.497		
1 1 1	/	5.996	6.97	613.191	26.468		
Ţ	8	5.996	8.13	613.320	26.457		
1	9	5.996	9.29	612.866	26.588		
1	10	5.996	10.45	613.860	26.062		
1	AVG			612.918	25.992		
2	1	6.387	0.00	614.273	24.307		
2	2	6.387	1.16	612.020	25.948		
2	2 3 4 5 6 7	6.387	2.32	614.818	26.330		
2	4	6.387	3.48	616.173	26.616		
2	5	6.387	4.65	615.518	26.649		
2	6	6.387	5.81	615.676	26.786		
2	7	6.387	6.97	616.962	26.711		
2	8	6.387	8.13	617.244	26.791		
2	9	6.387	9.29	616.362			
2	10	6.387	10.45	616.227	26.829		
112222222222333333333333333333333333333	ĀVG	0.307	10.43	615.574	25.824		
จั	1	6.755	0.00	617 006	26.328		
3	2	6.755		617.906	24.480		
3	3	6.755	1.16	613.405	25.410		
2		6.755	2.32	617.772	26.377		
3	4 5 6	6.755	3.48	618.859	26.582		
		6.755	4.65	618.068	26.514		
3	0	6.755	5.81	620.083	26.809		
3	7	6.755	6.97	617.983	26.758		
3	8	6.755	8.13	618.007	26.885		
3	9	6.755	9.29	617.152	27.096		
3	10	6.755	10.45	616.485	26.033		
3	AVG			617.615	26.345		
4	1	7.104	0.00	620.660	24.572		
4	2	7.104	1.16	614.693	26.038		
4	3	7.104	2.32	616.117	26.616		
4	4	7.104	3.48	619.759	26.662		
4	5	7.104	4.65	619.501	26.715		
4	5 6 7	7.104	5.81	620.090	26.991		
4	7	7.104	6.97	620.858	26.939		
4	8	7.104	8.13	620.279	27.310		
4	9	7.104	9.29	618.858	27.235		
4	10	7.104	10.45	62).629	26.292		
4	AVG			619.143	26.292		
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8 10 8.356 10.45 656 190 26.555	8						
8 10 8.356 10.45 656 190 26.555	8						
	8						
8 AVG 648.886 26.732	8		8.356	10.45			
	8	AVG			648.886	26.732	

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COMPRESSOR CONFIGURATION: PBS
                                   SCAN: 13
                                                    TEST ID:870901021
NOMINAL % DESIGN SPEED:090
                                   THROTTLE: 045
PERFORMANCE:
MEAS. WORK
            =1316.23
                      ISEN. EFFIC.= 87.465 POLYTROPIC EFFIC.=88.453
MEAS. FLOWR. = 35.569
                      CORR. FLOWR. = 54.493 COMPUTED FLOWRATE = 53.000
MEASURED RPM=18516.0
                      CORR. RPM =18163.4 % DESIGN RPM
                                                               = 89.82
           = 1.400
                      GAS CONSTANT= 53.351
                                             PRESSURE RATIO
                                                               = 1.794
SPEC. HEAT
                      P. COR. FAC.= 1.503
                                                                  .962
D.P. TEMP.
           =449.968
                                             TEMP. COR. FACT. =
ATMOS. PRES. = 14.334 ATM.PRES.(S) = 14.333 REL. HUMIDITY
                                                                  .028
CALIBRATION PRESSURES (SONIX)=
                                9.0042 14.3339 29.3386
VENTURI PRESSURES:
          (AVG=10.681, SONIX=10.681) =
                                       10.680
                                               10.680
                                                        10.677
                                                                10.687
   INLET
   THROAT (AVG= 9.697, SONIX= 9.697)=
                                        9.692
                                                9.697
                                                         9.692
                                                                 9.697
                                        9.699
                                                9.696
                                                         9.698
                                                                 9.697
                                        9.697
                                                 9.697
                                                         9.699
                                                                 9.698
PLENUM CONDITIONS:
                 (AVG= 9.777, SONIX= 9.760)=
                                              9.773
                                                       9.781
   PRESSURES
   TEMPERATURES (AVG=539.04)= 539.61 539.90 539.05 538.61 539.34
                               539.05 538.19 537.75 539.90
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                                             6.625
   RADIUS
                 8.125
                         7.750
                                7.375
                                      7.000
                                                      6.250
                                                            5.875
                  5.500
                         5.125
                27.066 26.946 26.025 ***** 26.989 ***** 26.601
   PRESSURE
                 26.516 26.350
   RADIUS
                 8.125
                         7.750
                               7.375
                                      7.000 6.625
                                                      6.250
                                                            5.875
                  5.500
                        5.125
   TEMPERATURE= 647.55 616.34 ***** 618.05 626.54 ***** *****
                 612.48 618.32
STATIC PRESSURES (CORRECTED):
                 ----HUB----
 ----CASING----
            P
                    X
   X
                             P
                 -5.125
         11.640
 -8.571
                          16.514
                          16.403
 -8.400
         11.635
                 -5.125
 -8.400
         11.717
                 -5.125
                          16.743
                 -5.125
 -8.400
         11.770
                          16.380
         11.582
 -8.400
                 -1.650
                          20.432
                 -1.650
 -8.318
         11.514
                          20.786
 -8.065
         11.314
                  -1.650
                          20.738
 -7.811
         11.728
                 -1.650
                          20.054
 -7.558
         14.968
                  -.900
                          20.276
                  -.900
 -7.304
         ****
                         20.835
         16.186
 -7.051
                  -.900
                         20.815
 -6.798
         *****
                   -.900
                          20.416
 -6.544
         19.353
 -6.291
         20.068
 -6.037
         20.480
 -5.784
         21.090
 -1.650
         21.574
 -1.650
         21.983
 -1.650
         21.928
 -1.650
         21.317
  -.900
         21.002
  -.900
         21.426
  -.900
         21.345
  ~.900
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DISCHA	RGE COI	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	612.873	25.346	12011 1111021
1	2	5.996	1.16	610.774	24.310	
		5.996	2.32	611.520	25.027	
1	4	5.996	3.48	614.038	26.317	
1	5	5.996	4.65	611.991	26.350	
1 1 1 1 1	3 4 5 6	5.996	5.81	613.688	26.524	
1	7	5.996	6.97	613.171		
ī	8	5.996	8.13	613.807	26.450	
ī	ğ	5.996	9.29	613.00/	26.468	
ī	10	5.996		613.040	26.634	
1	AVG	3.330	10.45	613.826	26.136	
2		6 207	0 00	612.932	26.010	
2	1	6.387	0.00	615.172	24.492	
2	4	6.387	1.16	612.328	25.788	
2	3	6.387	2.32	616.034	26.152	
2	4	6.387	3.48	617.697	26.692	
2	5	6.387	4.65	617.050	26.656	
2	2 3 4 5 6 7	6.387	5.81	617.348	26.813	
2	7	6.387	6.97	617.207	26.774	
2	8	6.387	8.13	617.222	26.849	
2	9	6.387	9.29	616.686	26.919	
2	10	6.387	10.45	616.058	25.881	
1222222222333333333344	AVG			616.339	26.349	
3	1	6.755	0.00	618.555	24.582	
3	2	6.755	1.16	613.647	25.046	
3	3	6.755	2.32	618.523	25.764	
3		6.755	3.48	620.428	26.671	
3	4 5 6	6.755	4.65	618.462	26.639	
3	6	6.755	5.81	620.860	26.815	
3	7	6.755	6.97	619.677	26.803	
3	8	6.755	8.13	620.087	26.976	
3	9	6.755	9.29	617.200		
3	10	6.755	10.45	618.043	27.105	
š	ĀVG	0.755	10.43	618.626	26.059	
ă	1	7.104	0.00	621.826	26.308	
4	2	7.104	1.16	616.057	24.782	
4	3	7.104			25.429	
4	4	7.104	2.32	619.020	26.366	
4	-		3.48	621.848	26.673	
4	2	7.104	4.65	621.057	26.726	
4	5 6 7	7.104	5.81	620.495	27.134	
4	/	7.104	6.97	619.837	27.063	
4	8	7.104	8.13	621.017	27.205	
4	9	7.104	9.29	619.719	27.420	
4	10	7.104	10.45	620.948	26.335	
4	AVG			620.200	26.570	

DISCHA	RGE COI	NDITIONS	(CORREC	CTED):		
PROBE	RAKE	RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
5	1	7.437	0.00	625.617	24.750	
5	2	7.437	1.16	619.665	26.362	
5	3	7.437	2.32	619.218	26.771	
5	4	7.437	3.48	622.093	26.813	
5	5	7.437	4.65	622.370	26.865	
55555555566666666	6 7	7.437	5.81	623.620	27.308	
5	7	7.437	6.97	625.099	26.987	
5	8	7.437	8.13	625.715	27.248	
5	9	7.437	9.29	624.086	27.274	
5	10	7.437	10.45	625.751	26.230	
5	AVG	,,,,,,	10.45	623.293	26.709	
š	1	7.756	0.00	634.612	24.609	
ě	2	7.756	1.16	624.758	26.150	
6	3	7.756	2.32	620.785		
ĕ	4	7.756	3.48	623.484	26.805	
š	Ę	7.756	4.65	625.924	26.736 26.869	
š	5 6 7	7.756	5.81	628.663		
6	7	7.756	6.97		27.311	
Š	8	7.756		630.239	27.067	
6	9		8.13	631.783	27.235	
6		7.756	9.29	632.904	27.329	
6	10	7.756	10.45	640.418	25.836	
6	AVG	0 050		629.177	26.657	
7	1	8.062	0.00	644.483	24.657	
7	2	8.062	1.16	634.029	25.952	
7	3	8.062	2.32	627.974	26.877	
7	4	8.062	3.48	630.377	26.702	
7	5	8.062	4.65	634.363	26.848	
7	5 6 7	8.062	5.81	638.777	27.465	
7		8.062	6.97	641.469	27.188	
7	8	8.062	8.13	542.465	27.329	
7	9	8.062	9.29	644.539	27.596	
7	10	8.062	10.45	650.270	26.154	
7	AVG			638.754	26.744	
8	1	8.356	0.00	656.622	25.605	
8 8	2	8.356	1.16	645.433	26.472	
8	3	8.356	2.32	640.030	27.024	
8	4	8.356	3.48	644.863	26.926	
8	5	8.356	4.65	648.421	26.795	
8	6	8.356	5.81	652.228	27.492	
8 8 8 8	5 6 7	8.356	6.97	655.457	27.060	
8	8	8.356	8.13	656.336	27.179	
	9	8.356	9.29	657.645	27.304	
8	10	8.356	10.45	658.769	26.741	
8	AVG			651.534	26.882	
					20.001	

```
COMPRESSOR CONFIGURATION: PBS
                                SCAN: 14
                                                 TEST ID:870901023
NOMINAL % DESIGN SPEED:090
                                 THROTTLE: 065
PERFORMANCE:
MEAS. WORK =1314.87 ISEN. EFFIC.= 85.023 POLYTROPIC EFFIC.=86.214
MEAS. FLOWR. = 34.226 CORR. FLOWR. = 52.709 COMPUTED FLOWRATE=51.285
MEASURED RPM=18522.0 CORR. RPM =18189.9 % DESIGN RPM
                                                           = 89.95
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                           = 1.805
D.P. TEMP. =449.877 P. COR. FAC. = 1.512
                                           TEMP. COR. FACT. = .964
ATMOS. PRES. = 14.333 ATM. PRES. (S) = 14.333 REL. HUMIDITY
                                                             .029
CALIBRATION PRESSURES (SONIX) = 9.0023 14.3334 29.3361
VENTURI PRESSURES:
   INLET (AVG=10.558, SONIX=10.559) = 10.559
                                                            10.562
                                            10.556 10.553
   THROAT (AVG= 9.645, SONIX= 9.651)=
                                     9.648
                                            9.639
                                                    9.648
                                                             9.639
                                                      9.644
                                      9.648
                                              9.647
                                                             9.647
                                      9.645
                                              9.645
                                                      9.647
                                                             9.647
PLENUM CONDITIONS:
   PRESSURES
               (AVG= 9.716, SONIX= 9.706)=
                                            9.717
                                                    9.714
   TEMPERATURES (AVG=537.82) = 538.51 538.80 537.95 537.36 537.95
                             537.80 536.95 536.62 538.45
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
   RADIUS
             = 8.125 7.750 7.375 7.000 6.625 6.250 5.875
                5.500
                      5.125
             = 27.222 27.160 26.413 ***** 27.097 ***** 27.072
   PRESSURE
               26.554 26.512
                             7.375 7.000 6.625 6.250 5.875
   RADIUS
               8.125
                      7.750
                5.500 5.125
   TEMPERATURE= 656.14 619.56 ***** 619.83 629.49 ***** *****
               613.34 622.30
STATIC PRESSURES (CORRECTED):
 ----CASING---- ----HUB-----
           P
   X
        12.063 -5.125
 -8.571
                        16.769
 -8.400 12.016 -5.125
                        16.631
 -8.400
       12.021
                -5.125 16.945
        12.157
                       16.604
 -8.400
                -5.125
 -8.400
        11.957
                -1.650
                        21.066
 -8.318 11.941
                -1.650
                        21.281
 -8.065 11.708
                -1.650 21.320
 -7.811 12.197
                -1.650 20.692
 -7.558 16.700
                -.900 20.912
 -7.304 *****
                 -.900 21.393
 -7.051 17.388
                 -.900
                        21.396
 -6.798 *****
                 -.900 21.048
        20.013
 -6.544
        20.718
 -6.291
        20.854
 -6.037
 -5.784
        21.543
        22.018
 -1.650
 -1.650
        22.377
        22.303
 -1.650
 -1.650
         21.775
  -.900
         21.546
        21.945
  -.900
  -.900
        21.859
```

-.900

1 1 5.996 0.00 612.932 25.488	W ANGLE
1 1 5.996 0.00 612.932 25.488	N ANGLE
A	
1 6 5.996 5.81 614.010 26.707 1 7 5.996 6.97 613.873 26.683	
1 7 5.996 6.97 613.873 26.683 1 8 5.996 8.13 614.758 26.635	
1 8 5.996 8.13 614.758 26.635 1 9 5.996 9.29 613.762 26.802	
1 9 5.996 9.29 613.762 26.802 1 10 5.996 10.45 614.656 26.236	
1 10 5.996 10.45 614.656 26.236 1 AVG 613.463 26.131	
1 AVG 613.463 26.131	
2 1 6.387 0.00 617.430 25.147 2 2 6.387 1.16 615.795 25.269	
2 2 6.387 1.16 615.795 25.269 2 3 6.387 2.32 615.065 25.481	
2 3 6.387 2.32 615.065 25.481 2 4 6.387 3.48 619.332 26.888	
2 4 6.387 3.48 619.332 26.888	
2 5 6.387 4.65 619.509 27.089	
2 6 6.387 5.81 619.660 27.170	
2 7 6.387 6.97 617.687 27.189	
2 8 6.387 8.13 620.447 27.212	
2 9 6.387 9.29 618.247 27.375	
2 10 6.387 10.45 619.247 26.028	
1 7 5.996 6.97 613.873 26.683 1 8 5.996 8.13 614.758 26.635 1 9 5.996 9.29 613.762 26.802 1 10 5.996 10.45 614.656 26.236 1 AVG 613.463 26.131 2 1 6.387 0.00 617.430 25.147 2 2 6.387 1.16 615.795 25.269 2 3 6.387 2.32 615.065 25.481 2 4 6.387 3.48 619.332 26.888 2 5 6.387 4.65 619.509 27.089 2 6 6.387 5.81 619.660 27.170 2 7 6.387 6.97 617.687 27.189 2 8 6.387 8.13 620.447 27.212 2 9 6.387 9.29 618.247 27.375 2 10 6.387 10.45 619.247 26.028 2 AVG 618.340 26.555 3 1 6.755 0.00 619.870 25.080 3 2 6.755 1.16 617.379 24.640 3 3 6.755 2.32 619.634 25.185 3 4 6.755 3.48 622.045 26.873 3 5 6.755 4.65 622.864 26.940 3 6 6.755 5.81 621.338 27.210 3 7 6.755 6.97 622.504 27.136 3 8 6.755 8.13 621.219 27.287 3 9 6.755 9.29 620.738 27.491 3 10 6.755 10.45 620.888 26.456 3 AVG 620.974 26.531	
3 1 6.755 0.00 619.870 25.080 3 2 6.755 1.16 617.379 24.640 3 3 6.755 2.32 619.634 25.185 3 4 6.755 3.48 622.045 26.873	
3 2 6.755 1.16 617.379 24.640	
3 3 6.755 2.32 619.634 25.185	
3 4 6.755 3.48 622.045 26.873	
3 5 6.755 4.65 622.864 26.940 3 6 6.755 5.81 621.338 27.210	
3 6 6.755 5.81 621.338 27.210	
3 7 6.755 6.97 622.504 27.136	
3 8 6.755 8.13 621.219 27.287	
3 9 6.755 9.29 620.738 27.491	
3 10 6.755 10.45 620.888 26.456	
3 AVG 620.974 26.531	
4 1 7.104 0.00 623.622 25.443 4 2 7.104 1.16 619.146 24.561	
4 4 7.104 3.48 622.928 26.733 4 5 7.104 4.65 624.121 26.944	
4 5 7.104 4.65 624.121 26.944 4 6 7.104 5.81 622.525 27.342	
4 4 7.104 3.48 622.928 26.733 4 5 7.104 4.65 624.121 26.944 4 6 7.104 5.81 622.525 27.342 4 7 7.104 6.97 624.099 27.339 4 8 7.104 8.13 624.233 27.480	
4 7 7.104 6.97 624.099 27.339	
4 9 7.104 9.29 622.438 27.651 4 10 7.104 10.45 625.195 26.733	
4 AVG 622.912 26.625	

and the same of th

DISCHARGE CONDITIONS (CORRECTED): PROBE RAKE RADIUS ANGLE TOTAL TEMP. TOTAL PRES. FLOW ANGLE 7.437 0.00 633.841 25.480 5 2 7.437 1.16 623.643 24.810 5 3 7.437 2.32 622.194 25.561 5 7.437 4 3.48 626.021 26.843 5 5 7.437 4.65 624.514 27.017 5 6 5.81 7.437 625.767 27.480 5 7 7.437 6.97 626.718 27.189 5 7.437 8 8.13 628.368 27.436 5 9 7.437 9.29 628.515 27.630 5 7.437 10.45 10 632.656 26.675 5 AVG 627.257 26.699 6 1 7.756 0.00 643.472 24.917 6 2 7.756 1.16 627.340 24.950 6 3 7.756 2.32 625.100 25.880 6 4 7.756 3.48 627.760 26.919 6 5 7.756 4.65 628.879 27.019 7.756 6 6 5.81 631.813 27.599 6 7 7.756 6.97 634.666 27.390 6 8 8.13 7.756 639.664 27.611 6 9 7.756 9.29 640.752 27.665 6 10 7.756 10.45 652.086 26.406 6 **AVG** 635.146 26.738 7 1 8.062 0.00 651.331 24.988 7 2 8.062 1.16 637.815 25.121 7 635.038 3 8.062 2.32 26.113 7 4 8.062 3.48 636.847 27.017 7 5 8.062 4.65 639.403 27.107 7 6 8.062 5.81 642.560 27.826 7 7 8.062 6.97 646.205 27.392 7 8 8.062 8.13 651.049 27.706 7 9 8.062 9.29 651.936 27.875 7 10 8.062 10.45 658.693 26.876 7 AVG 645.195 26.901 8 1 8.356 0.00 665.639 25.916 8 2 8.356 1.16 653.224 25.900 8 3 8.356 2.32 650.557 26.755 8 4 8.356 3.48 653.974 26.900 8 5 8.356 4.65 653.315 27.216 8 6 8.356 5.81 657.279 28.023 8 7 8.356 6.97 659.309 27.660 8 8 8.356 8.13 662.955 27.717 8 9 8.356 9.29 664.149 27.923 8 10 8.356 10.45 666.280 27.647 658.748 AVG 27.215

```
SCAN: 15
                                                  TEST ID:870901024
COMPRESSOR CONFIGURATION: PBS
                                 THROTTLE: 075
NOMINAL % DESIGN SPEED:090
PERFORMANCE:
MEAS. WORK =1307.51 ISEN. EFFIC. = 82.555 POLYTROPIC EFFIC. =83.934
MEAS. FLOWR. = 33.260 CORR. FLOWR. = 51.126 COMPUTED FLOWRATE=49.758
                                                            = 89.93
MEASURED RPM=18508.0 CORR. RPM =18185.4 % DESIGN RPM
SPEC. HEAT = 1.400 GAS CONSTANT= 53.351 PRESSURE RATIO
                                                            = 1.799
                                                              .965
D.P. TEMP. =449.877 P. COR. FAC. = 1.510 TEMP. COR. FACT. =
ATMOS. PRES. = 14.329 ATM.PRES.(S) = 14.332 REL. HUMIDITY
                                                               .029
CALIBRATION PRESSURES (SONIX)= 9.0042 14.3323 29.3373
VENTURI PRESSURES:
   INLET (AVG=10.521, SONIX=10.522) = 10.528
                                             10.515
                                                    10.520 10.522
   THROAT (AVG= 9.664, SONIX= 9.663)=
                                     9.660
                                             9.663
                                                     9.660
                                                            9.663
                                      9.666
                                              9.665
                                                      9.666
                                                             9.666
                                      9.663
                                              9.663
                                                      9.665
                                                              9.664
PLENUM CONDITIONS:
   PRESSURES (AVG= 9.729, SONIX= 9.718)=
                                           9.730
                                                    9.728
   TEMPERATURES (AVG=537.28)= 537.96 538.05 537.46 536.76 537.46
                             537.20 536.46 536.17 537.96
ROTOR 1 DISCHARGE CONDITIONS (CORRECTED):
                              7.375 7.000 6.625 5.250
   RADIUS
             = 8.125 7.750
                                                         5.875
                 5.500
                       5.125
              = 27.667 27.123 26.540 ***** 27.336 ***** 27.064
   PRESSURE
                26.514 26.523
                       7.750
                             7.375 7.000 6.625 6.250 5.875
   RADIUS
                 8.125
                 5.500 5.125
   TEMPERATURE= 660.70 622.55 ***** 620.23 633.39 ***** *****
                613.37 625.50
STATIC PRESSURES (CORRECTED):
 ----CASING---- ----HUB----
   X
           P
                 X
                          P
 -8.571
         12.382 -5.125
                        16.845
         12.345 -5.125
                        16.714
 -8.400
                        17.021
 -8.400
         12.381
                -5.125
                        16.675
 -8.400
        12.460
                -5.125
        12.276
                -1.650
 -8.400
                        21.281
                        21.423
        12.296
                -1.650
 -8.318
 -8.065
        12.096
                -1.050
                        21.476
         12.559
                -1.650
 -7.811
                        20.916
 -7.558
        17.155
                 -.900
                        21.142
                 -.900
 -7.304
        ****
                        21.584
                        21.597
                 -.900
 -7.051
         18.076
 -6.798
        ****
                 -.900
                        21.269
 -6.544
        20.474
 -6.291
         21.054
 -6.037
         21.035
 -5.784
         21.698
 -1.650
        22.116
 -1.650
        22.448
 -1.650
        22.355
 -1.650
         21.857
  -.900
        21.680
  -.900
        22.081
  -.900
        21.977
        21.452
  -.900
```

DISCHA	RGE CO	NDITIONS	(CORRE	CTED):		
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FLOW ANGLE
1	1	5.996	0.00	613.744	25.335	FLOW ANGLE
ī	2	5.996	1.16	613.344	24.379	
ī	3	5.996	2.32	611.540	24.379	
ī	4	5.996	3.48	613.557		
1		5.996	4.65		26.494	
1 1	5 6 7			614.090	26.630	
1	7	5.996	5.81	614.639	26.720	
1	′	5.996	6.97	614.363	26.669	
1	8	5.996	8.13	615.509	26.599	
1	9	5.996	9.29	614.199	26.885	
1	10	5.996	10.45	615.203	26.232	
1	AVG			614.099	26.132	
2	1	6.387	0.00	618.705	25.073	
2	2	6.387	1.16	617.284	25.132	
2	3	6.387	2.32	614.105	25.299	
2	4	6.387	3.48	618.783	26.839	
2	5 6 7	6.387	4.65	620.308	27.199	
2	6	6.387	5.81	619.252	27.150	
2	7	6.387	6.97	619.007	27.259	
2	8	6.387	8.13	620.424	27.111	
2	9	6.387	9.29	618.139	27.343	
2	10	6.387	10.45	620.058		
111112222222222333333333333333333333333	AVG	0.507	10.45	618.699	26.069 26.531	
3	1	6.755	0 00		26.531	
3	2		0.00	622.094	25.076	
ა ე	2	6.755	1.16	619.011	24.496	
3	3	6.755	2.32	620.373	24.643	
3	4	6.755	3.48	622.120	26.618	
3	5 6 7	6.755	4.65	626.499	27.035	
3	5	6.755	5.81	624.909	27.360	
3		6.755	6.97	624.783	27.390	
3	8	6.755	8.13	623.487	27.454	
3	9	6.755	9.29	622.684	27.941	
3	10	6.755	10.45	624.460	26.477	
3	AVG			623.248	26.600	
4	1	7.104	0.00	626.308	25.407	
4	2	7.104	1.16	622.414	24.106	
4	3	7.104	2.32	618.337	24.025	
4	4	7.104	3.48	622.669	26.313	
4		7.104	4.65	626.031	26.790	
4	5 6 7 8	7.104	5.81	624.872	27.271	
4	7	7.104	6.97	626.784	27.238	
Ž	Ŕ	7.104	8.13	624.758	27.360	
4 4 4	9	7.104	9.29	624.605		
4	10	7.104	10.45	627.061	27.712	
4	AVG	7.104	10.40		26.680	
7	AVG			624.637	26.474	

DISCHA	RGE COI	NDITIONS	(CORREC	CTED):			
PROBE		RADIUS	ANGLE	TOTAL TEMP.	TOTAL PRES.	FT.OW	ANGLE
5	1	7.437	0.00	638.910	25.491	LDON	AMGDE
5	2	7.437	1.16	630.797	24.347		
Š	3	7.437	2.32	622.946			
š	4	7.437	3.48		24.590		
5				626.955	26.499		
5	5 6 7	7.437	4.65	626.127	26.723		
5	0	7.437	5.81	626.247	27.252		
5		7.437	6.97	627.483	27.092		
5	8	7.437	8.13	630.695	27.330		
5	9	7.437	9.29	631.858	27.816		
555555556	10	7.437	10.45	639.629	26.586		
5	AVG			630.172	26.512		
6	1	7.756	0.00	651.380	24.851		
6	2	7.756	1.16	633.106	24.373		
6	3	7.756	2.32	628.222	24.876		
6 6 6 6	4	7.756	3.48	631.853	26.439		
š	5	7.756	4.65	630.565			
š	5 6 7	7.756	5.81	632.441	26.829		
Š	7			636.441	27.429		
6	8	7.756	6.97	635.947	27.431		
6		7.756	8.13	642.654	27.557		
6	9	7.756	9.29	645.391	27.796		
6	10	7.756	10.45	661.573	26.611		
6	AVG			639.388	26.579		
7	1	8.062	0.00	660.804	24.969		
7	2	8.062	1.16	644.918	24.664		
7	3	8.062	2.32	639.256	25.000		
7	4	8.062	3.48	640.740	26.410		
7	5	8.062	4.65	639.134	26.932		
7	5 6 7	8.062	5.81	644.617	27.617		
7	7	8.062	6.97	648.415	27.388		
7	8	8.062	8.13	653.242			
ż	9	8.062	9.29	654.572	27.558		
'n	10	8.062	10.45		27.968		
Ź	AVG	0.002	10.45	667.140	27.367		
8		0 256	0 00	649.458	26.738		
0	1	8.356	0.00	670.767	26.043		
8	2	8.356	1.1€	658.481	25.573		
8	3	8.356	2.32	655.789	25.998		
8	4	8.356	3.48	659.435	26.682		
8	5 6	8.356	4.65	655.732	27.212		
8	6	8.356	5.81	659.322	27.848		
8 8 8	7	8.356	6.97	662.051	27.828		
8	8	8.356	8.13	663.816	27.785		
8	9	8.356	9.29	665.277	28.153		
8	10	8.356	10.45	673.984	27.962		
8	AVG	•	- 	662.592	27.186		
					27.100		

APPENDIX B

870901001 - PBS ROTOR #1 AERODYNAMIC ANALYSIS - THRU-BLADE

FREE STATION 1.000 IS INDEX 1

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	13 ØØ -	-18.450	181.5	241.1	0.0	241.1	518.71	513.87
	12.536 -		187.3	241.1	0.0	241.1	518.71	513.87
2 3	11.790 -		193.1	241.1	0.0	241.1	518.71	513.87
4	11.061 -		198.6	241.1	0.0	241.1	518.71	513.87
5	10.346 -		203.9	241.1	0.0	241.1	518.71	513.87
5 6	9.646 -		208.9	241.1	0.0	241.1	518.71	513.87
7	8.957 -		213.6	241.1	0.0	241.1	518.71	513.87
8	8.280 -		217.8	241.1	0.0	241.1	518.71	513.87
. 9	7.612 -		221.7	241.1	0.0	241.1	518.71	513.87
10	6.953 -		225.2	241.1	0.0	241.1	518.71	513.87
11	6.301 -		228.3	241.1	0.0	241.1	518.71	513.87
12	5.655 -		231.0	241.1	0.0	241.1	518.71	513.87
13	5.015 -		233.3	241.1	0.0	241.1	518.71	513.87
14	4.380 -		235.3	241.1	0.0	241.1	518.71	513.87
15	3.748 -		236.9	241.1	0.0	241.1	518.71	513.87
16	3.119 -		238.3	241.1	0.0	241.1	518.71	513.87
17	2.493 -		239.3	241.1	0.0	241.1	518.71	513.87
18	1.868 -	-18.450	240.1	241.1	0.0	241.1	518.71	513.87
19	1.245 -	-18.450	240.6	241.1	0.0	241.1	518.71	513.87
20		-18.450	241.0	241.1	0.0	241.1	518.71	513.87
21		-18.450	241.1	241.1	0.0	241.1	518.71	513.87
CTOM								
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL. MACH
LINE NUMBER	RADIUS							
LINE NUMBER 1	13.300			PRESS.	TEMP.		MACH	MACH
LINE NUMBER 1		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER .2169
LINE NUMBER 1	13.300	PRESS. 14.69	PRESS.	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 241.1	MACH NUMBER .217 .217	MACH NUMBER .2169 .2169
LINE NUMBER 1 2 3 4	13.300 12.536	PRESS. 14.69 14.69	PRESS. 14.22 14.22	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 241.1 241.1	MACH NUMBER .217 .217 .217	MACH NUMBER . 2169 . 2169 . 2169
LINE NUMBER 1 2 3 4	13.300 12.536 11.790 11.061 10.346	PRESS. 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 241.1 241.1 241.1	MACH NUMBER .217 .217 .217	MACH NUMBER .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6	13.300 12.536 11.790 11.061 10.346 9.646	PRESS. 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217	MACH NUMBER . 2169 . 2169 . 2169
LINE NUMBER 1 2 3 4 5 6 7	13.300 12.536 11.790 11.061 10.346 9.646 8.957	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655 5.015	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655 5.015 4.380	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655 5.015 4.380 3.748	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655 5.015 4.380 3.748 3.119	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655 5.015 4.380 3.748 3.119 2.493	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.953 6.955 5.015 4.380 3.119 2.493 1.868	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.301 5.655 5.015 4.380 3.748 3.119 2.493 1.868 1.245	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	13.300 12.536 11.790 11.061 10.346 9.646 8.957 8.280 7.612 6.953 6.953 6.955 5.015 4.380 3.119 2.493 1.868	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22 14.22	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1 241.1	MACH NUMBER .217 .217 .217 .217 .217 .217 .217 .217	MACH NUMBER .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169 .2169

FREE STATION 1.000 IS INDEX 1

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	, KAGE
NUMBER			ANGLE	SLOPE			
1	13.300 -	18.450	ଡ. ଡଡ	-41.15	ଉ. ଉଉଉଉ	. 0747	0.0000
2	12.536 -	18.450	Ø. ØØ	-39.00	Ø. ØØØØ	. 0747	0.0000
3	11.790 -	18.450	Ø. ØØ	-36.77	0. 0000	. Ø747	ଡ. ଉପଉପ
4	11.061 -	18.450	Ø. ØØ	-34.51	Ø. ØØØØ	. 0747	Ø. ØØØØ
5	10.346 -	18.450	Ø. ØØ	-32.22	Ø. ØØØØ	• Ø747	ଡ. ଡଡଡଡ
6	9.646 -	18.450	0.00	-29.93	Ø. ØØØØ	. @747	0.0000
7	8.957 -	18.450	ଡ. ଡଡ	-27.63	ଡ. ଡଡଡଡ	. 0747	Ø. ØØØØ
8	8.280 -	18.450	0.00	-25.36	Ø. ØØØØ	. Ø747	Ø. ØØØØ
9	7.612 -	18.450	ଡ. ଡଡ	-23.11	Ø. ØØØØ	. 0747	0.0000
10	6.953 -	18.450	Ø. ØØ	-20.90	ଡ. ଉପସତ	. 0747	Ø. ØØØØ
11	6.301 -	18.450	0.00	-18.74	ଡ. ଉପଡଡ	. Ø747	ଡ. ଉପଡଡ
12	5.655 -	18.450	0.00	-16.62	Ø. ØØØØ	. Ø747	0.0000
13	5.015 -	18.450	0.00	-14.56	ଡ . ଡଡଡଡ	. Ø747	Ø. ØØØØ
14	4.380 -	18.450	0.00	-12.55	0.0000	.0747	Ø. ØØ Ø Ø
15	3.748 -	18.450	0.00	-10.61	0. 0000	. 0747	0.0000
16	3.119 -	18.450	0.00	-8.73	Ø. ØØØØ	. 0747	0.0000
17	2.493 -	18.450	Ø. ØØ	-6.91	ଡ. ଡଡ଼ଡଡ଼	. 0747	ଡ. ଉପ୍ରତ
18	1.868 -	18.450	0.00	-5.14	Ø. ØØØØ	. 0747	Ø. ØØØØ
19	1.245 -	18.450	Ø. ØØ	-3.41	ଡ. ଉପଉପ	. 0747	Ø. ØØØØ
20	.622 -	18.450	0.00	-1.71	Ø. ØØØØ	. 0747	Ø. ØØØØ
21	. ଉପଡ	18.450	Ø. ØØ	ଡ. ଡଡ	0.	. 0747	Ø. ØØØØ

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELDC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	9.480 -	14.081	453.7	540.8	0.0	540.8	518.71	494.34
2	9.030 -		456.8	530.5	0.0	530.5	518.71	495.25
3	8.583 -		456.9	518.8	0.0	518.8	518.71	496.28
4	8.137 -		454.7	506.3	0.0	506.3	518.71	497.34
5	7.690 -		450.9	493.7	0.0	493.7	518.71	498.40
<u> </u>	7.242 -		446.1	481.1	0.0	481.1	518.71	499.42
7	6.791 -		440.5	468.8	0.0	468.8	518.71	500.39
ė	6.338 -		434.3	456.9	0.0	456.9	518.71	501.31
9	5.880 -		427.7	445.6	0.0	445.6	518.71	502.16
10	5.418 -		420.9	434.7	0.0	434.7	518.71	502.96
11	4.952 -		414.0	424.4	0.0	424.4	518.71	503.70
12	4.480 -		407.0	414.7	0.0	414.7	518.71	504.38
13	4.004 -		400.0	405.5	0.0	405.5	518.71	505.01
14	3.521 -		393.2	396.9	0.0	396.9	518.71	505.58
15	3.034 -		386.5	388.9	0.0	388.9	518.71	506.10
16	2.540 -		380.2	381.7	0.0	381.7	518.71	506.57
17	2.041 -		374.4	375.1	0.0	375.1	518.71	506.98
18	1.537 -		369.1	369.5	0.0	369.5	518.71	507.33
19	1.028 -		364.8	364.9	0.0	364.9	518.71	507.61
ຂ້ຶ້		14.855	361.8	361.8	0.0	361.8	518.71	507.80
21		14.900	360.6	360.6	Ø. Ø	360.6	518.71	507.88
		111500	000.0	00010	W . W	000.0	O. C. 7 .	567.00
STRM	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	NUMBER
1	9.480	14.69	12.42	1.0000	1.0000	540.8	. 496	. 4960
2	9.030	14.69	12.50	1.0000	1.0000	530.5	. 486	. 4862
3	8.583	14.69	12.59	1.0000	1.0000	518.8	475	. 4749
4	8.137	14.69	12.69	1.0000	1.0000	506.3	. 463	.4630
5	7.690	14.69	12.78	1.0000	1.0000	493.7	. 451	.4510
6	7.242	14.69	12.87	1.0000	1.0000	481.1	. 439	. 4390
7	6.791	14.69	12.96	1.0000	1.0000	468.8	. 427	. 4274
8	6.338	14.69	13.04	1.0000	1.0000	456.9	.416	.4162
9	5.880	14.69	13.12	1.0000	1.0000	445.6	. 406	4055
10								.3953
11	5.418	14.69	13.19	1.0000	1.0000	434.7	• 373	
12	5.418 4.952	14.69 14.69	13.19 13.26	1.0000 1.0000	1.0000 1.0000	434.7 424.4	. 395 . 386	
	4.952	14.69	13.26	1.0000	1.0000	424.4	.386	.3857
	4.952 4.480	14.69 14.69	13.26 13.32	1.0000 1.0000	1.0000 1.0000	424.4 414.7	.386 .377	.3857 .3765
13	4.952 4.480 4.004	14.69 14.69 14.69	13.26 13.32 13.38	1.0000 1.0000 1.0000	1.0000 1.0000 1.0000	424.4 414.7 405.5	.386 .377 .368	.3857 .3765 .3680
13 14	4.952 4.480 4.004 3.521	14.69 14.69 14.69 14.69	13.26 13.32 13.38 13.43	1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9	.386 .377 .368 .360	.3857 .3765 .3680 .3600
13	4.952 4.480 4.004	14.69 14.69 14.69 14.69 14.69	13.26 13.32 13.38 13.43 13.48	1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9 388.9	.386 .377 .368 .360 .353	.3857 .3765 .3680 .3600 .3526
13 14 15	4.952 4.480 4.004 3.521 3.034 2.540	14.69 14.69 14.69 14.69 14.69	13.26 13.32 13.38 13.43 13.48 13.53	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9 388.9 381.7	.386 .377 .368 .360 .353 .346	.3857 .3765 .3680 .3600 .3526 .3458
13 14 15 16 17	4.952 4.480 4.004 3.521 3.034 2.540 2.041	14.69 14.69 14.69 14.69 14.69 14.69	13.26 13.32 13.38 13.43 13.48 13.53 13.57	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9 388.9 381.7 375.1	.386 .377 .368 .360 .353 .346	.3857 .3765 .3680 .3600 .3526 .3458 .3398
13 14 15 16 17 18	4.952 4.480 4.004 3.521 3.034 2.540 2.041 1.537	14.69 14.69 14.69 14.69 14.69 14.69 14.69	13.26 13.38 13.43 13.48 13.53 13.57 13.60	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9 388.9 381.7 375.1 369.5	.386 .377 .368 .360 .353 .346 .340	.3857 .3765 .3680 .3600 .3526 .3458 .3398
13 14 15 16 17 18 19	4.952 4.480 4.004 3.521 3.034 2.540 2.041 1.537 1.028	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	13.26 13.38 13.43 13.48 13.53 13.57 13.60 13.62	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9 388.9 381.7 375.1 369.5 364.9	.386 .377 .368 .360 .353 .346 .340 .335	.3857 .3765 .3680 .3600 .3526 .3458 .3398 .3345
13 14 15 16 17 18	4.952 4.480 4.004 3.521 3.034 2.540 2.041 1.537	14.69 14.69 14.69 14.69 14.69 14.69 14.69	13.26 13.38 13.43 13.48 13.53 13.57 13.60	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	424.4 414.7 405.5 396.9 388.9 381.7 375.1 369.5	.386 .377 .368 .360 .353 .346 .340	.3857 .3765 .3680 .3600 .3526 .3458 .3398

FREE STATION 2.000 IS INDEX 2

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	9.480 -1	14.081	ଡ. ଡଡ	-32.97	.0952	.0678	ଡ. ଡଡଡଡ
2	9.030 -	14.120	0.00	-30.56	.0982	. 2681	0.0000
3	8.583 -	14.158	0.00	-28.28	. Ø984	. 0685	Ø. ØØØØ
4	8.137 -	14. 197	0.00	-26.10	. 0966	.0688	Ø. ØØØØ
5	7.690 -	14.235	0.00	-24.01	. 0935	.0692	ଡ. ଉଉଉଡ
6	7.242 -	14.274	0.00	-21.98	. Ø894	. 0696	Ø. ØØØØ
7	6.791 -:	14.313	0.00	-20.02	. Ø846	. 0699	Ø. ØØØØ
8	6.338 -		0.00	-18.12	.0795	.0702	ଡ. ଉଉଉଡ
9	5.880 -		0.00	-16.27	.0741	. 0705	ଡା. ହାଡାହାଡା
10	5.418 -	14.432	0.00	-14.47	.0686	.0708	Ø. 0000
11	4.952 -	14.472	0.00	-12.73	.0631	.0711	Ø. 0000
12	4.480 -:	14.513	Ø. ØØ	-11.05	. 0577	.0713	Ø. ØØØØ
13	4.004 -:		0.00	-9.43	.0523	.0715	ଡ. ଉପରପ
14	3.521 -	14.596	0.00	-7.87	. Ø47Ø	.0717	0.0000
15	3.034 -:		0.00	-6.39	.0418	.0719	0. 0000
16	2.540 -:		0.00	-4.98	. 0365	.0721	Ø. ØØØØ
17	2.041 -		0.00	-3.66	.0311	.0722	ଡ. ଉପସପ
18	1.537 -:		0.00	-2.46	.0253	.0723	Ø. ØØØØ
19	1.028 -		0.00	-1.40	.0186	. 0724	ଡ. ଉଉଉଡ
20	.515 -:		0.00	59	.0102	.0725	0.
21	.000 -:	14.900	0.00	ହ. ହହ	ଡ. ଉପ୍ରତ	.0725	ଡ. ଉଉଉଉ

STRM- LINE NUMBER	RADIUS AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1 2 3 4 5 6 7 8	8.960 -12.851 8.519 -12.742 8.082 -12.635 7.649 -12.529 7.218 -12.423 6.788 -12.317 6.360 -12.212 5.933 -12.107	583.2 579.9 575.6 570.5 564.7 558.3 551.1 543.3	614.3 603.7 593.8 584.3 575.0 565.8 556.4		565.8	518.71 518.71 518.71 518.71 518.71 518.71 518.71 518.71	487.25 488.33 489.32 490.25 491.15 492.03 492.91 493.80
9 10 11 12 13	5.505 -12.00? 5.078 -11.897 4.649 -11.792 4.220 -11.686 3.788 -11.580	534.5 524.7 513.8 501.4 487.5	536.5 525.7 514.1 501.5 487.6	0. 0 0. 0 0. 0 0. 0 0. 0	536.5 525.7 514.1 501.5	518.71 518.71 518.71 518.71	494.72 495.67 496.68 497.75
14 15 16 17	3.353 -11.474 2.914 -11.366 2.469 -11.257 2.017 -11.145	471.6 453.3 431.9 406.4	472.1 454.7 434.8 411.5	Ø. Ø Ø. Ø Ø. Ø	472.1 454.7 434.8 411.5	518.71 518.71 518.71 518.71 518.71	498.90 500.13 501.48 502.95 504.59
18 19 20 21	1.552 -11.031 1.069 -10.913 .553 -10.786 .000 -10.650	374.6 333.4 276.8 203.4	383.7 349.3 306.1 257.5	0.0	383.7 349.3 306.1 257.5	518.71 518.71 518.71 518.71	506.44 508.54 510.90 513.18
STRM- LINE NUMBER	RADIUS TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS. RATIO	TOTAL TEMP. RATIO	ABSOL. VELOC.	ABSOL. MACH NUMBER	ABSOL. MACH NUMBER
1 2 3 4 5 6	8.960 14.69 8.519 14.69 8.082 14.69 7.649 14.69 7.218 14.69 6.788 14.69	11.81 11.90 11.98 12.06 12.14 12.22	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	614.3 603.7 593.8 584.3 575.0 565.8	.568 .557 .547 .538 .529	.5676 .5571 .5474 .5382 .5292
7 8 9 10 11	6.360 14.69 5.933 14.69 5.505 14.69 5.078 14.69 4.649 14.69	12.29 12.37 12.45 12.54 12.63	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	556.4 546.7 536.5 525.7 514.1	.511 .502 .492 .482 .470	.5111 .5018 .4920 .4816 .4705
12 13 14 15 16 17	4.220 14.69 3.788 14.69 3.353 14.69 2.914 14.69 2.469 14.69 2.017 14.69	12.72 12.82 12.94 13.06 13.19 13.34	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	501.5 487.6 472.1 454.7 434.8 411.5	. 458 . 445 . 431 . 414 . 395 . 374	. 4584 . 4452 . 4305 . 4141 . 3954 . 3736
18 19 20 21	1.552 14.69 1.069 14.69 .553 14.69	13.51 13.71 13.94	1.0000 1.0000 1.0000	1.0000 1.0000 1.0000	383.7 349.3 306.1	.348 .316 .276	.3477 .3159 .2762

FREE STATION 3.000 IS INDEX 3

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	8.960 -12.851	0.00	-18.32	.1067	. 0654	0.0000
2	8.519 -12.742	0.00	~16.14	.0947	.0658	0.0000
3	8.082 -12.635	ହ. ହହ	-14.23	. 0863	.0661	0.0000
4	7.649 -12.529	0.00	-12.49	.0803	. 0664	0.0000
5	7.218 -12.423	ଡ. ଡଡ	-10.88	.0761	.0667	0.0000
6	6.788 -12.317	0.00	-9.36	.0732	.0670	0.0000
7	6.360 -12.212	0.00	-7.89	.0715	.0673	0.0000
8	5.933 -12.107	0.00	-6.45	. 0706	. 0676	Ø. 0000
9	5.505 -12.002	0.00	-5.02	. 0707	.0679	0.0000
10	5.078 -11.897	0.00	-3.58	.0718	.0683	0.0000
11	4.649 -11.792	0.00	-2.12	.0739	.0686	0.0000
12	4.220 -11.686	0.00	62	.0773	.0690	0.0000
13	3.788 -11.580	Ø. ØØ	. 94	.0823	.0694	0.0000
14	3.353 -11.474	0.00	2.61	.0894	.0698	01.0000
15	2.914 -11.366	0.00	4.44	.0993	.0703	0.0000
16	2.469 -11.257	0.00	6.54	.1135	.0708	0.0000
17	2.017 -11.145	0.00	9.10	.1342	.0714	0.0000
18	1.552 -11.031	0.00	12.46	. 1647	.0720	0.0000
19	1.069 -10.913	0.00	17.37	.2098	.0728	0.0000
20	.553 -10.786	0.00	25.28	. 2684	.0736	0.0000
21	.000 -10.650	0.00	37.85	.2963	.0744	0.0000

СТОМ-	DANTHE	AVIA	AVIAL	MEDIN	TONO	anaa	TOTAL	070770
STRM- LINE	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.		STATIC TEMP.
NUMBE	:p	COURD.	veroc.	VELLUL:	veruc.	VELUC.	1 = 111 = 1	1 E.I.D.*
1	 8.550 -	11, 138	718.6	724.6	0.0	724.6	518.71	474.94
ē	8.170 -		699.0	703.3			518.71	477.48
3	7.788 -		681.3	684.2			518.71	479.69
4	7.405 -		665.1	666.8	0.0		518.71	481.65
5	7.021 -		650.0	650.B	0.0		518.71	483.40
6	6.636 -		635.5	635.8			518.71	485.02
7	6.250 -		621.2	621.2			518.71	486.54
ė	5.864 -		606.8	606.9		606.9	518.71	488.01
9	5.478 -		591.9	592.4		592.3	518.71	489.46
10	5.091 -		576.1	577.4		577.4		490.92
11	4.704 -		559.2	561.8		561.8	518.71	492.41
îż	4.317 -		540.9	545.4		545.4		493.92
13	3.930 -		521.1	528.2	0.0	528.2	518.71	495.46
14	3.545 -		499.6	510.1	0.0	510.1	518.71	497.03
15	3.161 -		476. Ø	491.2	0.0	491.2		498.60
16	2.783 -		450.1	471.8	Ø. Ø	471.8	518.71	500.15
17		-9.931	421.1	452.4		452.4	518.71	501.65
18		-9.862	388.5	434.1	0.0	434.1	518.71	503.00
19		-9.801	351.6	419.6			518.71	504.04
50		-9. 755	309.8	412.6		412.6		504.52
21		-9.736	260.8	412.5	Ø. Ø	412.5	518.71	504.53
·-	14 711	J. 730	EDO. D	415.0	6.6	71C.U	770.17	
STRM-	- RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBE	R			OITAS.	RATIO		NUMBER	NUMBER
1	8.550	14.69	10.80	1.0000	1.0000	724.6	.678	. 6781
2	8.170	14.69	11.00	1.0000	1.0000	703.3		. 6564
2 3	7.788	14.69	11.18	1.0000	1.0000	684.2		.6371
4	7.405	14.69	11.34	1.0000	1.0000	666.8		.6197
5	7.021	14.69	11.49	1.0000	1.0000	650.8	. 604	.6037
6	6.636	14.69	11.62	1.0000	1.0000	635.8		.5888
7	6.250	14.69	11.75	1.0000	1.0000	621.2	. 574	- 5744
8	5.864	14.69	11.87	1.0000	1.0000	606.9		.5603
9	5.478	14.69	12.00	1.0000	1.0000		. 546	. 5460
10	5.091	14.69	12.12	1.0000	1.0000	577.4	. 531	.5315
11	4.704	14.69	12.25	1.0000	1.0000	561.8	.516	.5163
12	4.317	14.69	12.38	1.0000	1.0000	545.4	.500	. 5005
13	3.930	14.69	12.52	1.0000	1.0000	528.2	. 484	. 4839
14	3.545	14.69	12.66	1.0000	1.0000	510.1	. 467	. 4666
15	3.161	14.69	12.80	1.0000	1.0000	491.2	. 449	. 4487
16	2.783	14.69	12.94	1.0000	1.0000	471.8	. 430	. 4303
17	2.414	14.69	13.07	1.0000	1.0000	452.4	.412	. 4119
18	2.064	14.69	13.20	1.0000	1.0000	434.1	. 395	.3947
19	1.753	14.69	13.29	1.0000	1.0000	419.6	.381	.3812
20								
	1.010	14.63	13.34	ו שששש ו	טטטטט. ו	412.6	. এ/১	. ය/46
21	1.518 1.421	14.69 14.69	13.34 13.34	1.0000 1.0000	1.0000 1.0000	412.6 412.5	. 375 . 375	.3746 .3746

FREE STATION 4.000 IS INDEX 4

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.550 -	11.138	0.00	-7.39	.1018	.0614	0.0000
2	8.170 -	11.063	0.00	-6.31	.0939	.0622	0.0000
3	7.788 -	10.988	0.00	-5.22	. Ø874	.0629	2.0000
4	7.405 -	10.913	0.00	-4.12	.0822	. Ø636	0.0000
5	7.021 -	10.837	0.00	-2.97	.0782	.0641	Ø. ØØØØ
6	6.636 -	10.762	0.00	-1.77	. Ø755	.0647	ଡ. ଉଉଉଡ
7	6.250 -	10.686	Ø. ØØ	50	. 0740	.0652	ଡ. ଉପଉଡ
8	5.864 -	10.610	0.00	. 85	. 0737	. Ø657	0.0000
9	5.478 -	10.534	0.00	2.30	. 0746	.0662	0.0000
10	5.091 -	10.458	0.00	3.85	. 0764	.0686	Ø. ØØØØ
11	4.704 -	10.381	0.00	5.53	.0792	.0672	Ø. ØØØØ
12	4.317 -	10.305	0.00	7.35	.0827	. 0677	Ø. ØØØØ
13	3.930 -	10.229	0.00	9.37	.0869	.0682	0.0000
14	3.545 -	10.153	0.00	11.64	.0916	.0687	0.0000
15	3.161 -	10.078	Ø. ØØ	14.29	. 0965	.0693	ଡ. ଉପଡଡ
16	2.783 -	10.003	Ø. ØØ	17.46	. 1004	. 0698	Ø. ØØØØ
17	2.414	-9.931	ଫ. ଉହା	21.42	. 1004	. 0703	0.0000
18	2.064	-9.862	0.00	26.50	.0887	.0708	0.0000
19	1.753	-9.801	0.00	33.07	. 0465	.0712	0.0000
20	1.518	-9.755	0.00	41.32	0565	.0713	0.
21	1.421	-9.736	ଡ. ଡଡ଼	50.79	2152	.0714	ଡ. ହହହହ

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1 אם יוסבול	0 500	-0 CEO	747 0	747 6		7/7 5	E45 74	175 45
	8.500	-8.650	747.2	747.2	0.0	747.3	518.71	472.16
2 3	8.138	-8.676	742.8	742.8	0.0	742.9	518.71	472.71
	7.778	-8.701	737.7	737.7	0.0	737.8	518.71	473.34
4	7.420	-8.726	731.3	731.4	0.0	731.5	518.71	474.11
5	7.063	-8.751	723.1	723.5	0.0	723.5	518.71	475.07
6	6.707	-8.776	712.6	713.5	0.0	713.6	518.71	476.26
7	6.353	-8.801	699.4	701.3	0.0	701.4	518.71	477.71
8	5.999	-8.826	683.4	686.6	0.0	686.7	518.71	479.41
9	5.644	-8.851	664.3	669.5	0.0	669.5	518.71	481.35
10	5.289	-8.876	642.2	649.9	0.0	649.9	518.71	483.50
11	4.933	-8.901	617.8	628.6	0.0	628.6	518.71	485.78
12	4.576	-8.926	591.7	606.2	0.0	606.2	518.71	488.08
13	4.217	-8.951	564.6	583.5	0.0	583.5	518.71	490.33
14	3.859	-8.976	537.1	561.2	0.0	561.2	518.71	492.46
15	3.503	-9.001	509.5	540.0	0.0	539.9	518.71	494.41
16	3.153	-9.026	482.1	520.5	Ø. Ø	520.4	518.71	496.14
17	2.817	-9.049	454.9	503.5	Ø. Ø	503.3	518.71	497.59
18	2.506	-9. Ø71	428. Ø	489.8	0.0	489.7	518.71	498.73
19	2.241	-9.090	402.1	480.3	0.0	480.1	518.71	499.50
20	2.054	-9.103	380.3	475.2	Ø. Ø	475.0	518.71	499.91
21	1.984	-9.108	370.3	473.B	0.0	473.6	518.71	500.01
STRM-	RADIUS		STATIC		TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL. MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 14.69	PRESS.	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 747.3	MACH NUMBER .701	MACH
LINE NUMBER 1 2	8.500 8.138	PRESS. 14.69 14.69	PRESS. 10.58 10.62	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1 2 3	8.500 8.138 7.778	PRESS. 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	747.3 742.9 737.8	MACH NUMBER .701	MACH NUMBER .7014
LINE NUMBER 1 2 3 4	8.500 8.138 7.778 7.420	PRESS. 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5	MACH NUMBER .701 .697	MACH NUMBER .7014 .6968
LINE NUMBER 1 2 3 4 5	8.500 8.138 7.778 7.420 7.063	PRESS. 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5 723.5	MACH NUMBER .701 .697 .692	MACH NUMBER .7014 .6968 .6916
LINE NUMBER 1 2 3 4 5	8.500 8.138 7.778 7.420 7.063 6.707	PRESS. 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5	MACH NUMBER .701 .697 .692 .685	MACH NUMBER .7014 .6968 .6916 .6851
LINE NUMBER 1 2 3 4 5 6	8.500 8.138 7.778 7.420 7.063 6.707 6.353	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5 723.5	MACH NUMBER .701 .697 .692 .685	MACH NUMBER .7014 .6968 .6916 .6851 .6770
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5 723.5 713.6	MACH NUMBER .701 .697 .692 .685 .677	MACH NUMBER .7014 .6968 .6916 .6851 .6770
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5 723.5 713.6 701.4	MACH NUMBER .701 .697 .692 .685 .677 .667	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7	MACH NUMBER .701 .697 .692 .685 .677 .667 .654	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5	MACH NUMBER .701 .697 .692 .685 .677 .654 .654	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5 649.9	MACH NUMBER .701 .697 .692 .685 .677 .654 .640 .622 .603 .582	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.933	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5 649.9 628.6 606.2	MACH NUMBER .701 .697 .692 .685 .677 .654 .654 .622 .603 .582	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028 .5816
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.933 4.576	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 11.88	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5 649.9 628.6	MACH NUMBER .701 .697 .692 .685 .677 .654 .6640 .622 .582 .560	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028 .5816 .5596 .5374
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.933 4.576 4.217	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 11.88 12.07	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5 649.9 628.6 606.2 583.5	MACH NUMBER .701 .697 .692 .685 .677 .654 .640 .622 .603 .582 .560 .537	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028 .5816 .5596 .5374
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.933 4.576 4.217 3.859	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 12.07 12.26	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 701.4 686.7 669.5 649.9 628.6 606.2 583.5 561.2 539.9	MACH NUMBER 701 697 692 685 6677 654 622 622 582 560 537 516	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028 .5816 .5596 .5374 .5157
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.933 4.576 4.217 3.859 3.503	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 11.88 12.07 12.26 12.43	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5 649.9 628.6 606.2 583.5 561.2	MACH NUMBER .701 .697 .692 .685 .677 .654 .640 .622 .603 .582 .560 .537	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028 .5816 .5596 .5374
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.138 7.778 7.420 7.063 6.353 5.999 5.644 5.289 4.933 4.576 4.217 3.859 3.503 3.153	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 12.68 12.58	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 701.4 686.7 669.5 649.9 628.6 606.2 583.5 561.2 539.9 520.4	MACH NUMBER .701 .697 .692 .685 .657 .654 .622 .603 .582 .560 .537 .516 .495	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6668 .6544 .6396 .6223 .6028 .5816 .5374 .5157 .4952 .4765
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.283 4.576 4.217 3.503 3.153 2.817	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.90 11.02 11.16 11.32 11.49 11.68 12.43 12.58 12.71	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 701.4 686.7 669.5 649.9 628.6 583.5 561.2 539.9 520.4 503.3	MACH NUMBER .701 .697 .692 .685 .6677 .654 .6622 .603 .560 .537 .516 .495 .476	MACH NUMBER .7014 .6968 .6916 .6851 .6668 .6544 .6393 .6028 .5396 .5596 .5374 .5157 .4955 .4476
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.576 4.217 3.859 3.153 2.817 2.506	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 12.07 12.26 12.43 12.58 12.71 12.81	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 713.6 701.4 686.7 669.5 649.9 628.6 2583.5 561.2 539.9 520.4 503.3 489.7	MACH NUMBER .701 .697 .692 .685 .667 .654 .662 .603 .582 .560 .537 .516 .495 .440 .447	MACH NUMBER .7014 .6968 .6916 .6851 .6770 .6664 .6393 .6028 .5816 .5596 .5374 .5157 .4952 .4476 .4472 .4381
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.138 7.778 7.420 7.063 6.707 6.353 5.999 5.644 5.289 4.933 4.933 4.933 4.933 3.153 2.817 2.506 2.241	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.58 10.62 10.67 10.73 10.81 10.90 11.02 11.16 11.32 11.49 11.68 12.07 12.26 12.58 12.71 12.88	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 747.3 742.9 737.8 731.5 723.5 701.4 686.7 669.5 649.9 628.6 606.2 583.5 561.2 539.9 520.4 503.3 489.7 480.1	MACH NUMBER .701 .697 .692 .685 .6677 .654 .640 .622 .563 .556 .516 .476 .447 .438	MACH NUMBER .7014 .6968 .6916 .6851 .6668 .6544 .6393 .6028 .5396 .5596 .5374 .5157 .4955 .4476 .4472

FREE STATION 5.000 IS INDEX 5

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STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-8.650	0.00	58	.0120	. 0605	0. 0000
2	8.138	-8.676	0.00	20	.0122	.0607	0.0000
3	7.778	-8.701	0.00	. 34	.0135	. 0609	Ø. ØØØØ
4	7.420	-8.726	Ø. QQ	1.05	.0161	.0611	0.0000
5	7.063	-8.751	0.00	1.94	.0199	.0614	ଡ. ଡଡଡଡ
6	6.707	-8.776	0.00	3.00	. Ø248	.0618	0.0000
7	6.353	-8.801	0.00	4.22	. 0306	.0623	Ø. ØØØØ
8	5. 999	-8.826	ଡ. ଉଡ	5.60	.0373	.0628	0.0000
9	5.644	-8.851	ଡ. ଡଡ	7.14	. Ø449	.0635	Ø. 0000
10	5.289	-8.876	0.00	8.83	. 0526	.0642	0.0000
11	4.933	-8.901	0.00	10.65	.0593	.0649	Ø. ØØØØ
12	4.576	-8. 926	0.00	12.58	. Ø639	.0657	Ø. ØØØØ
13	4.217	-8.951	Ø. ØØ	14.64	.0661	.0664	0.0000
14	3.859	-8.976	0.00	16.88	.0651	.0672	0.0000
15	3.503	-9.001	0.00	19.35	.0598	. Ø67B	0.0000
16	3.153	-9.026	Ø. ØØ	22.15	.0482	. Ø684	Ø. ØØØØ
17	2.817	-9.049	0.00	25.37	.0276	.0689	Ø. 0000
18	2.506	-9.071	0.00	29.10	0043	.0693	0.0000
19	2.241	-9.090	Ø. ØØ	33.16	0473	.0696	0.
20	2.054	-9.103	Ø. ØØ	36.84	0926	. Ø697	Ø. ØØØØ
21	1.984	-9.108	0.00	38.59	1173	.0698	0.0000

STRM- LINE NUMBER	RADIUS	AXIAL CODRD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-7.802	812.6	812.4	0.0	812.1	518.71	463.73
ē	8.143	-7.878	819.6	819.5	0.0	819.2	518.71	462.77
2 3	7.790	-7.952	828.9	828.8	0.0	828.4	518.71	461.49
4	7.441	-8.018	835. 1	835.2	0.0	834.9	518.71	460.60
5	7.095	-8.076	835.3	836.0	0.0	835.7	518.71	460.49
Ē	6.752	-8.128	828.5	830.4	0.0	830.2	518.71	461.26
7	6.411	-8.175	815.4	819.2	0.0	819.0	518.71	462.79
8	6.072	-8.216	796.6	803.0	0.0	802.9	518.71	464.97
9	5.736	-8.248	772.6	782.6	0.0	782.5	518.71	467.66
10	5.403	-8.264	743.7	758.4	0.0	758.4	518.71	470.76
11	5.075	-8.259	711.4	731.8	0.0	731.9	518.71	474.06
12	4.753	-8.240	677.8	704.3	0.0	704.5	518.71	477.34
1.3	4.437	-8.215	644.2	677.0	0.0	677.2	518.71	480.48
14	4.125	-8.192	611.6	650.8	0.0	651.1	518.71	483.38
15	3.822	-8.174	581.5	627.2	0.0	627.6	518.71	485.88
16	3.531	-8.158	555.3	608.0	0.0	608.4	518.71	487.86
17	3, 262	-B. 144	534.3	594.8	0.0	595.2	518.71	489.18
18	3.026	-8.133	518.9	588.1	0.0	588.6	518.71	489.83
19	2.839	-8.125	508.7	587.2	0.0	587.7	518.71	489.92
20	2.718	-8.120	502.8	589.2	0.0	589.8	518.71	489.72
21	2.675	-8.119	500.8	590.5	0.0	591.1	518.71	489.59
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
		1016	01771	1 40 1 1714	IWIME	1/1	mranr.	1/1-1-1-1
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
LINE	8.500			PRESS.	TEMP.		MACH	MACH NUMBER
LINE NUMBER 1 2		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH
LINE NUMBER 1 2 3	8.500 8.143 7.790	PRESS.	PRESS. 9.93	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 1703.7	MACH NUMBER .769	MACH NUMBER 1.6135
LINE NUMBER 1 2 3 4	8.500 8.143	PRESS. 14.69 14.69	9.93 9.86	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 1703.7 1652.2	MACH NUMBER .769 .777	MACH NUMBER 1.6135 1.5664
LINE NUMBER 1 2 3 4 5	8.500 8.143 7.790	PRESS. 14.69 14.69 14.69	9.93 9.86 9.77	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3	MACH NUMBER .769 .777 .786	MACH NUMBER 1.6135 1.5664 1.5221
LINE NUMBER 1 2 3 4 5	8.500 8.143 7.790 7.441 7.095 6.752	PRESS. 14.69 14.69 14.69	9.93 9.86 9.77 9.70	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4	MACH NUMBER .769 .777 .786 .793	MACH NUMBER 1.6135 1.5664 1.5221 1.4771
LINE NUMBER 1 2 3 4 5 6	8.500 8.143 7.790 7.441 7.095 6.752 6.411	PRESS. 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8	MACH NUMBER - 769 - 777 - 786 - 793 - 794	MACH NUMBER 1.6135 1.5664 1.5221 1.4771
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86 10.03	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776
LINE NUMBER 1 2 3 4 5 6	8.500 8.143 7.790 7.441 7.095 6.752 6.411	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86 10.03	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072 5.736	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86 10.03	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072 5.736 5.403	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86 10.03 10.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738 - 713	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072 5.736 5.403 5.075	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	9.93 9.86 9.77 9.70 9.69 9.75 9.86 10.23 10.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738 - 713 - 686	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072 5.736 5.403 5.075 4.753	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.77 9.69 9.69 9.86 10.03 10.47 10.73 10.99	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1217.0 1155.4 1094.2	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738 - 713 - 686 - 658	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072 5.403 5.403 5.403 4.437 4.125 3.822	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.77 9.70 9.69 9.75 9.86 10.03 10.47 10.73 10.99 11.24	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4 1094.2 1034.0	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738 - 713 - 686 - 658 - 630	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.143 7.790 7.441 7.095 6.752 6.471 6.733 5.4075 4.753 4.125 3.822 3.531	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.77 9.69 9.65 9.86 10.23 10.47 10.73 10.99 11.24 11.48	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4 1094.2 1034.0 975.6	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738 - 713 - 686 - 658 - 630 - 604	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621 .9050
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.072 5.403 5.403 5.403 4.437 4.125 3.822	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.70 9.69 9.75 9.86 10.23 10.47 10.73 10.99 11.24 11.48 11.69	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4 1094.2 1034.0 975.6 920.1	MACH NUMBER - 769 - 777 - 786 - 793 - 788 - 776 - 759 - 738 - 713 - 686 - 658 - 630 - 604 - 581	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621 .9050 .8513
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.143 7.790 7.441 7.095 6.752 6.411 6.073 5.407 5.407 4.125 4.125 3.822 3.531	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.70 9.69 9.75 9.83 10.23 10.47 10.73 10.99 11.24 11.69 11.86	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4 1094.2 1034.0 975.6 920.1 869.8	MACH NUMBER - 769 - 777 - 786 - 793 - 788 - 776 - 759 - 738 - 713 - 666 - 658 - 630 - 604 - 581 - 562	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621 .9050 .8513 .8031
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.143 7.790 7.441 7.095 6.411 6.0736 5.403 5.4075 4.125 3.823 3.531 3.262	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.70 9.69 9.75 9.83 10.23 10.47 10.73 10.99 11.48 11.69 11.86 11.97	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4 1094.2 1034.0 975.6 920.1 869.8 827.0	MACH NUMBER - 769 - 777 - 786 - 794 - 776 - 7759 - 738 - 713 - 658 - 630 - 604 - 581 - 562 - 549	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621 .9050 .8513 .8031 .7626
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	8.500 8.143 7.790 7.441 7.095 6.475 6.0736 5.4075 5.4075 4.125 5.075 4.125 3.531 3.526 2.839 2.718	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.70 9.69 9.75 9.86 10.03 10.47 10.73 10.99 11.24 11.69 11.69 11.97	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1217.0 1155.4 1094.2 1034.0 975.6 920.1 869.8 827.0 793.8	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 775 - 738 - 713 - 658 - 630 - 604 - 581 - 562 - 549 - 542	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621 .9621 .9050 .8513 .8031 .7626 .7315
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.143 7.790 7.441 7.095 6.475 6.075 6.075 5.403 5.403 5.403 5.403 7.4125 3.828 3.828 3.828 3.839	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 9.93 9.86 9.70 9.675 9.863 10.23 10.73 10.99 11.24 11.69 11.97 12.03	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1703.7 1652.2 1603.3 1554.4 1503.8 1450.7 1395.3 1337.6 1278.1 1217.0 1155.4 1094.2 1034.0 975.6 920.1 869.8 827.0 793.8 771.3	MACH NUMBER - 769 - 777 - 786 - 793 - 794 - 788 - 776 - 759 - 738 - 658 - 630 - 604 - 562 - 549 - 542 - 541	MACH NUMBER 1.6135 1.5664 1.5221 1.4771 1.4292 1.3776 1.3227 1.2651 1.2053 1.1440 1.0822 1.0214 .9621 .9050 .8513 .8031 .7626 .7315 .7107

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-7.802	Ø. ØØ	0.00	Ø. ØØØØ	. 0578	. Ø288
2	8.143	-7.878	Ø. ØØ	06	0230	. 0575	.0293
3	7.790	-7.952	0.00	. 44	0273	.0571	. 0299
4	7.441	-8.018	Ø. ØØ	1.38	0196	. 0569	. 0306
5	7.095	-8.076	0.00	2.63	0063	.0568	.0313
6	6.752	-8.128	0.00	4.06	. 0068	.0571	.0320
7	6.411	-8.175	0.00	5.62	.0168	. 0575	.0324
8	6.072	-8.216	0.00	7.32	.0247	.0582	. 0328
9	5.736	-8.248	Ø. 00	9.23	.0342	. 0591	.0331
10	5.403	-8.264	0.00	11.36	. 0479	. 0600	.0341
11	5.075	-8.259	Ø. ØØ	13.60	.0610	.0611	. 0356
12	4.753	-8.240	0.00	15.80	.0678	.0621	. 0380
13	4.437	-8.215	0.00	17.93	.0678	.0632	.0411
14	4.125	-8.192	0.00	20.00	. 0604	.0641	. 0447
15	3.822	-8.174	ଡ. ଡଡ	22.03	. 0462	. 0650	.0516
16	3.531	-8.158	0.00	24.06	.0253	.0656	.0602
17	3.262	-8.144	ଡ.ଡଡ	26.09	0031	.0661	.0719
18	3.026	-8.133	Ø. QQ	28.10	0391	.0663	.0836
19	2.839	-8.125	0.00	29.98	0789	. 0663	. 0936
20	2.718	-8.120	0.00	31.44	1121	.0662	. 1007
21	2.675	-8.119	ଡ. ଡଡ	32.02	1255	.0662	.1034
STRM-	BLADE	BLADE	WHEEL				
LINE	SECT.	LEAN	SPEED				
NUMBER	ANGLE	ANGLE					
1	-53.96	7.35	1497.5				
2	-52.68	8.11	1434.6				
3	-51.88	7.15	1372.5				
4	-50.49	5.41	1310.9				
5	-48.99	3.63	1250.0				
6	-47.92	2.61	1189.5				
7	-47.15	1.65	1129.5				
8	-46.41	.38	1069.8				
9	-45.66	83	1010.5				
10	-44.79		951.8				
1.1	-43.92	-3.20	894.1				
12	-43.15		837.4				
13	-42.23	-2.92	781.6				
14	-41.24	-2.33	726.8				
15	-40.36	-1.41	673.2				
16	-39.42	34	622.0				
17	-37.68	1.33	574.6				
18	-35.99	2.89	533.1				
19	-34.24	4.46	500.2				
20	-33.13	5.48	478.8				
21	-32.74	5.84	471.3				

STRM- LINE NUMBER	RADIUS	AXIAL CODRD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-7.383	764.1	764.9	84.9	768.7	539.89	490.66
2	8.140	-7.422	784.8	785.6	98.5	790.8	542.24	490.13
3	7.790	-7.462	806.8	807.6	110.3	814.2	543.93	488.70
4	7.451	-7.500	828.9	829.8	120.5	837.5	545.07	486.62
5	7.119	-7.532	845.6	847.1	132.6	856.5	546.41	485.28
6	6.793	-7.562	857.4	860.3	145.8	871.6	547.77	484.47
7	6.472	-7.590	863. Ø	868.2	160.8	882.1	549.24	484.42
8	6.154	-7.615	863.6	872.3	177.0	889.2	550.67	484.80
9	5.842	-7.633	859.0	872.5	194.4	893.0	552.04	485.60
10	5.537	-7.644	846.1	865.9	210.5	890.3	552.91	486.88
1.1	5.235	-7.650	810.4	837.3	202.6	860.7	549.83	488.12
12	4.933	-7.654	771.8	806. O	189.9	827.3	546.20	489.17
1.3	4.632	-7.656	734.1	775.6	177.9	795.1	542.89	490.22
14	4.333	-7.658	697.6	746.3	168.2	764.4	540.10	491.41
15	4.039	-7.660	662.6	717.9	160.7	735.3	537.76	492.72
16	3.756	-7.665	629.8	691.3	154.3	708.0	535.72	493.96
17	3.493	-7.671	601.7	668.4	148.5	684.6	533.93	494.88
18	3.261	-7.676	580.2	651.2	143.6	666.9	532.45	495.40
19	3.077	-7.680	566.Ø	640.2	139.7	655.3	531.33	495.54
20	2.957	-7.683	558.6	634.7	137.0	649.4	530.60	495.45
21	2.915	-7.684	556.4	633.1	136.0	647.7	530.35	495.39
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	RELAT. VELOC.	ABSOL. MACH	RELAT. MACH
	RADIUS							
LINE	RADIUS 8.500			PRESS.	TEMP.		MACH	MACH
LINE NUMBER 1 2	8.500 8.140	PRESS.	PRESS.	PRESS. RATIO 1.1056 1.1239	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1 2 3	8.500 8.140 7.790	PRESS. 16.25 16.52 16.80	PRESS. 11.63 11.60 11.55	PRESS. RATIO 1.1056 1.1239 1.1433	TEMP. RATIO 1.0408	VELOC.	MACH NUMBER .708	MACH NUMBER 1.4790 1.4273 1.3823
LINE NUMBER 1 2 3 4	8.500 8.140 7.790 7.451	PRESS. 16.25 16.52 16.80 17.09	PRESS. 11.63 11.60 11.55 11.49	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508	VELOC. 1606.3 1549.4 1498.4 1452.4	MACH NUMBER .708 .729 .751 .774	MACH NUMBER 1.4790 1.4273 1.3823 1.3428
LINE NUMBER 1 2 3 4 5	8.500 8.140 7.790 7.451 7.119	PRESS. 16.25 16.52 16.80 17.09 17.32	PRESS. 11.63 11.60 11.55 11.49 11.44	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6	MACH NUMBER .708 .729 .751 .774 .793	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013
LINE NUMBER 1 2 3 4 5 6	8.500 8.140 7.790 7.451 7.119 6.793	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2	MACH NUMBER .708 .729 .751 .774 .793 .808	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.140 7.790 7.451 7.119 6.793 6.472	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2 1308.8	MACH NUMBER .708 .729 .751 .774 .793 .808 .817	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42 11.44	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2 1308.8 1258.5	MACH NUMBER . 708 . 729 . 751 . 774 . 793 . 808 . 817 . 824	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42 11.42	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616 1.0643	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2 1308.8 1258.5 1207.5	MACH NUMBER . 708 . 729 . 751 . 774 . 793 . 808 . 817 . 824 . 826	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42 11.42 11.74	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378 1.2469	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616 1.0643 1.0659	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2 1308.8 1258.5 1207.5 1155.4	MACH NUMBER . 708 . 729 . 751 . 774 . 793 . 808 . 817 . 824 . 826 . 823	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537 5.235	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42 11.42 11.51 11.62 11.74 11.86	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378 1.2469 1.2240	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0643 1.0643 1.0659 1.0600	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0	MACH NUMBER . 708 . 729 . 751 . 774 . 793 . 808 . 817 . 824 . 826 . 823 . 794	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537 5.235 4.933	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 11.96	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2224 1.2378 1.2469 1.2240 1.1969	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616 1.0643 1.0659 1.0600 1.0530	VELOC. 1606.3 1549.4 1498.4 1452.4 1405.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1054.0	MACH NUMBER . 708 . 729 . 751 . 774 . 793 . 808 . 817 . 824 . 826 . 823 . 794 . 763	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537 5.235 4.933 4.632	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 11.96 12.06	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378 1.2469 1.2240 1.1969 1.1728	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0560 1.0560 1.0569 1.0643 1.0659 1.0659 1.0600 1.0530 1.0466	VELOC. 1606.3 1549.4 1498.4 1495.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1054.0 1004.3	MACH NUMBER . 708 . 729 . 751 . 774 . 793 . 808 . 817 . 824 . 826 . 823 . 794 . 763 . 732	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537 5.235 4.632 4.333	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.23 16.93	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 11.96 12.06 12.17	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378 1.2469 1.2240 1.1969 1.1728 1.1524	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0560 1.0589 1.0616 1.0643 1.0659 1.0600 1.0530 1.0466 1.0412	VELOC. 1606.3 1549.4 1498.4 1405.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1054.0 1004.3 954.5	MACH NUMBER 708 729 751 774 793 808 817 824 826 823 794 763 703	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8781
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.140 7.790 7.451 7.119 6.472 6.154 5.535 4.633 4.633 4.039	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59 17.63 16.93 16.69	PRESS. 11.63 11.60 11.55 11.49 11.44 11.42 11.44 11.51 11.62 11.74 11.86 12.06 12.17 12.29	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378 1.2469 1.2240 1.1969 1.1728 1.1524 1.155	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616 1.0643 1.0659 1.0600 1.0530 1.0466 1.0412 1.0367	VELOC. 1606.3 1549.4 1498.4 1405.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1004.3 954.5 905.0	MACH NUMBER 708 729 751 774 793 808 817 824 826 823 794 763 763 703 676	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8781 .8315
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.140 7.790 7.451 7.119 6.472 6.154 5.842 5.535 4.933 4.633 4.039 3.756	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59 17.69 16.93 16.69 16.47	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 12.06 12.17 12.29 12.40	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2378 1.2469 1.2240 1.1969 1.1728 1.1524 1.1355 1.1207	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0560 1.0589 1.0616 1.0643 1.0659 1.0600 1.0530 1.0466 1.0412 1.0367 1.0328	VELOC. 1606.3 1549.4 1498.4 1405.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1004.3 954.5 905.0 857.5	MACH NUMBER 708 729 751 774 793 808 817 824 825 794 763 703 676 650	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8781 .8315 .7869
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.140 7.790 7.451 7.119 6.793 6.452 5.535 4.633 4.633 4.633 4.756 3.493	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59 17.23 16.93 16.69 16.47 16.28	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 12.06 12.17 12.40 12.48	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2224 1.2224 1.2240 1.1969 1.1728 1.1524 1.1355 1.1207 1.1077	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0560 1.0569 1.0613 1.0659 1.0600 1.0530 1.0466 1.0466 1.0367 1.0328 1.0293	VELOC. 1606.3 1549.4 1498.4 1405.6 1358.2 1308.8 1257.5 1104.0 1054.0 1054.0 1054.5 905.0 857.5 815.3	MACH NUMBER 708 729 751 774 793 808 817 824 826 823 794 763 763 703 676 650	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8315 .7869 .7475
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537 5.233 4.632 4.633 4.633 4.039 3.493 3.261	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59 17.23 16.69 16.47 16.28 16.12	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 11.96 12.06 12.17 12.29 12.40 12.48 12.53	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2224 1.2240 1.1269 1.1728 1.1728 1.1524 1.1524 1.1507 1.1077 1.0970	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616 1.0643 1.0659 1.0659 1.06530 1.0466 1.0412 1.0367 1.0328 1.0265	VELOC. 1606.3 1549.4 1498.4 1495.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1054.0 1004.3 954.5 905.0 857.5 815.3 780.9	MACH NUMBER .708 .729 .751 .774 .793 .808 .817 .824 .826 .823 .794 .763 .732 .703 .650 .650 .628	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8781 .8315 .7869 .7475 .7155
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.533 4.633 4.633 4.075 3.261 3.077	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59 17.23 16.93 16.69 16.47 16.28 16.12 16.00	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 11.74 11.86 11.74 11.86 11.74	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2224 1.2240 1.1269 1.1728 1.1524 1.1555 1.1207 1.1077 1.0970 1.0889	TEMP. RATIO 1.0408 1.0454 1.0456 1.0508 1.0560 1.0560 1.0569 1.0616 1.0659 1.0659 1.0657 1.0466 1.0412 1.0367 1.0293 1.0265 1.0243	VELOC. 1606.3 1549.4 1498.4 1495.6 1308.8 1258.5 1207.5 1104.0 1004.3 954.5 905.0 857.5 815.3 780.9 756.1	MACH NUMBER .708 .729 .751 .774 .793 .808 .817 .824 .825 .794 .763 .703 .703 .676 .650 .628 .611	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8781 .8315 .7869 .7475 .7155 .6927
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.140 7.790 7.451 7.119 6.793 6.472 6.154 5.842 5.537 5.233 4.632 4.633 4.633 4.039 3.493 3.261	PRESS. 16.25 16.52 16.80 17.09 17.32 17.54 17.74 17.96 18.19 18.32 17.99 17.59 17.23 16.69 16.47 16.28 16.12	PRESS. 11.63 11.60 11.55 11.49 11.44 11.51 11.62 11.74 11.86 11.96 12.06 12.17 12.29 12.40 12.48 12.53	PRESS. RATIO 1.1056 1.1239 1.1433 1.1628 1.1789 1.1938 1.2074 1.2224 1.2224 1.2240 1.1269 1.1728 1.1728 1.1524 1.1524 1.1507 1.1077 1.0970	TEMP. RATIO 1.0408 1.0454 1.0486 1.0508 1.0534 1.0560 1.0589 1.0616 1.0643 1.0659 1.0659 1.06530 1.0466 1.0412 1.0367 1.0328 1.0265	VELOC. 1606.3 1549.4 1498.4 1495.6 1358.2 1308.8 1258.5 1207.5 1155.4 1104.0 1054.0 1004.3 954.5 905.0 857.5 815.3 780.9	MACH NUMBER .708 .729 .751 .774 .793 .808 .817 .824 .826 .823 .794 .763 .732 .703 .650 .650 .628	MACH NUMBER 1.4790 1.4273 1.3823 1.3428 1.3013 1.2585 1.2127 1.1657 1.1175 1.0679 1.0191 .9719 .9251 .8781 .8315 .7869 .7475 .7155

STAT	I ON	6.200	IS INSIDE	OF A	ROTOR WITH	INDEX	7
STRM- LINE NUMBER	RADIUS	AXIAL CODRD.		STRM- LINE SLOPE	TURE	DENS- ITY	BLOC- KAGE
1	8.500	-7.383	6. 33	0.00		. 0640	. 0884
2	8.140	-7.422	7.15	45		.0639	.0893
3	7.790	-7.462	7.78	11		.0638	.0940
4	7.451	-7.500	8.27	. 90		.0637	.1010
5	7,119	-7.532	8.90	2.34		.0636	.1109
6	6.793	-7.562	9.62	4.01		.0636	.1236
7	6.472	-7.590	10.49	5.80		.0637	. 1367
8	6.154	-7.615	11.47	7.71		.0641	. 1478
9	5.842	-7.633	12.56	9.79	0023	. 0646	. 1563
10	5.537	-7.644	13.67	12.05	0098	.0651	.1637
11	5. 235	-7.650	13.60	14.34	0209	.0656	. 1681
12	4.933	-7.654	13.26	16.54		. Ø660	.1732
1.3	4.632	-7.656	12.92	18.65		. 0664	. 1791
14	4.333	-7.658	12.70	20.64		.0669	.1863
15	4.039	-7.660	12.62	22.50		. 0673	. 1949
16	3.756	-7.665	12.58	24.19	— —	.0678	.2036
17 18	3.493	-7.671	12.52	25.68		.0681	.2130
19	3.261 3.077	-7.676	12.44	26.88		.0683	. 2233
20	2.957	-7.680 -7.683	12.31	27.72		.0683	.2326
21	2.915	-7.684	12.18 12.13	28.21		.0683	. 2395
t.	F. 210	-/,004	15.10	28.37	0365	.0682	. 2421
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE	ANGLE					
1	-60.22	80	1497.5			.0502	
2	-58.66	. 88	1434.0			.0508	
3	-56.82	1.40	1372.4			.0428	
4	-54.81	1.07	1312.6			.0281	
5	-52.60	32	1254.2			.0176	
€, 7	-50.55	-1.48	1196.8			. 0078	
	-48.48	-2.52	1140.1			ଉଉଉଉ	
9	-46.32 -43.96	-3.39	1084.2			0109	
10	-41.50	-3.77 -3.89	1029.2 975.4			0246	
11	-39.51	-3.48	922.3			0364	
îŝ	-37.78	-3.21	869. 1			Ø471	
13	-36.66	-3.20	816.0			0563	
14	-35.66	-2.73	763.3			0644 0717	
15	-34.68	-2.01	711.6			0717 0782	
16	-33.13	. 19	661.8			.073 <u>2</u> 0831	
17	-31.86	2.32	615.3			- 0860	
18	-30.71	4.08	574.5			.0874	
19	-29.86	5.47	542.1			.0875	
20	-29.32	€.14	521.0			0869	
21	-29.13	6.29	513.6			.0865	

STRM- LINE NUMBER	RADIUS	AXIAL CODRD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-6.784	726.7	727.1	176.8	748.0	562.79	516.21
2	8.136	-6.987	750.9	751.3	200.4	777.2	566.54	516.25
2 3	7.788	-6.994	779.6	780.0	220.5	810.2	569.09	514.44
4	7.457	-7.002	811.1	811.6	237.7	845.3	570.71	511.22
5	7.139	-7.008	835.5	836.5	258.4	875.2	572.82	509.05
6	6.830	-7.016	856.1	858.4	281.1	902.9	575.02	507.14
7	6.528	-7.024	872.5	877.1	306.9	928.9	577.47	505.62
8	6.232	-7.033	888.3	896.4	334.1	956.3	579.78	503.64
9	5.944	-7.037	901.8	914.8	363.2	983.9	582.03	501.42
10	5.665	-7.035	906.7	926.0	392.1	1005.3	583.85	499.72
1.1	5.388	-7.034	882.9	908.9	383.2	986.1	579.28	498.31
12	5.110	-7.039	852.4	886.1	366.8	958.6	573.69	497.17
13	4.827	-7.055	818.6	860.6	349.3	928.3	568.18	496.41
14	4.544	-7.080	781.3	832.1	332.3	895.5	563.00	496.21
15	4.263	-7.106	743.3	802.9	318.2	863.2	558.51	496.45
16	3.992	-7.131	706.0	773.9	307.0	832.2	554.67	496.98
17	3.736	-7.156	670.9	746.2	297.3	802.9	551.31	497.61
18	3.509	-7.178	640.8	721.7	288.9	777.1	548.46	498.16
19	3.327	-7.196	617.4	702.1	282.3	756.4	546.27	498.60
20	3.207	-7.208	602.4	688.9	277 . 8	742.6	544.86	498.91
21	3.165	-7.212	597.3	684.3	276.2	737.7	544.36	499.02
STRM-	RADIUS	TOTAL	STATIC	TOTAL	ΤΠΤΩΙ	REI OT	OBGO	REL OT
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.		TOTAL TEMP.	RELAT.	ABSOL.	RELAT.
	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	RELAT. VELDC.	MACH	MACH
LINE NUMBER 1	RADIUS 8.500		PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1		PRESS.		PRESS. RATIO 1.2271	TEMP. RATIO 1.0850	VELOC. 1507.6	MACH NUMBER .671	MACH NUMBER 1.3533
LINE NUMBER 1 2 3	8.500	PRESS. 18.03	PRESS.	PRESS. RATIO	TEMP. RATIO 1.0850 1.0922	VELOC. 1507.6 1443.8	MACH NUMBER .671 .698	MACH NUMBER 1.3533 1.2960
LINE NUMBER 1 2 3 4	8.500 8.136	PRESS. 18.03 18.54	PRESS. 13.33 13.39	PRESS. RATIO 1.2271 1.2614	TEMP. RATIO 1.0850	VELOC. 1507.6 1443.8 1390.9	MACH NUMBER .671 .698 .729	MACH NUMBER 1.3533 1.2960 1.2507
LINE NUMBER 1 2 3 4 5	8.500 8.136 7.788	PRESS. 18.03 18.54 19.08	PRESS. 13.33 13.39 13.40	PRESS. RATIO 1.2271 1.2614 1.2987	TEMP. RATIO 1.0850 1.0922 1.0971	VELOC. 1507.6 1443.8	MACH NUMBER .671 .698 .729 .762	MACH NUMBER 1.3533 1.2960 1.2507 1.2157
LINE NUMBER 1 2 3 4 5	8.500 8.136 7.788 7.457 7.139 6.830	PRESS. 18.03 18.54 19.08 19.65	PRESS. 13.33 13.39 13.40 13.37	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003	VELOC. 1507.6 1443.8 1390.9 1347.7	MACH NUMBER .671 .698 .729 .762 .762	MACH NUMBER 1.3533 1.2960 1.2507
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.136 7.788 7.457 7.139 6.830 6.528	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2	MACH NUMBER .671 .698 .729 .762	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.232	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8	MACH NUMBER .671 .698 .729 .762 .791	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.232 5.944	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.232 5.944 5.665	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.232 5.944 5.665 5.388	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83 12.73	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.528 6.232 5.944 5.665 5.388 5.110	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83 12.73 12.65	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256 1.1168 1.1060	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .896	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.232 5.944 5.665 5.388 5.110 4.827	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83 12.65 12.60	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1043 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .917 .901 .877 .850	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096 .9783
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.136 7.788 7.457 7.139 6.830 6.528 6.232 5.944 5.665 5.388 5.110 4.827 4.544	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83 12.73 12.65 12.60 12.60	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751 1.3334	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.0854	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .917 .901 .877 .850 .820	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096 .9783 .9459 .9115 .8741
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.136 7.788 7.457 7.139 6.528 6.528 5.944 5.665 5.388 5.110 4.827 4.544 4.263	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59 19.07	PRESS. 13.33 13.39 13.40 13.37 13.23 13.15 13.05 12.83 12.65 12.60 12.60 12.63	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751 1.3334 1.2976	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.0854 1.0767	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7 912.1	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .917 .901 .877 .850 .820 .790	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1409 1.00702 1.0404 1.0096 .9783 .9459 .9115 .8741 .8349
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.136 7.788 7.457 7.139 6.528 6.528 6.232 5.665 5.388 5.110 4.8544 4.263 3.992	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59 19.07 18.62	PRESS. 13.33 13.39 13.40 13.37 13.23 13.15 13.05 12.83 12.65 12.60 12.60 12.63 12.68	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751 1.3334 1.2976 1.2671	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.0854 1.0767 1.0693	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7 912.1 869.5	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .896 .917 .901 .877 .850 .820 .790 .761	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1409 1.0702 1.0404 1.0096 .9783 .9459 .9115 .8741 .8349 .7954
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15	8.500 8.136 7.788 7.457 7.139 6.528 6.238 6.238 6.238 5.668 5.668 5.110 4.827 4.263 3.736	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59 19.07 18.62 18.23	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.65 12.60 12.60 12.63 12.68 12.74	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4667 1.4667 1.4201 1.3751 1.3334 1.2976 1.2671 1.2406	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.06767 1.0693 1.0628	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7 912.1 869.5 828.9	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .896 .917 .901 .850 .790 .761 .734	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096 .9783 .9459 .9115 .8741 .8349 .7954 .7578
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.136 7.788 7.457 7.139 6.538 6.538 6.238 5.944 5.665 5.380 4.827 4.544 4.263 3.736 3.509	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59 19.07 18.62 18.23 17.90	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83 12.65 12.60 12.60 12.60 12.79	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751 1.3334 1.2976 1.2671 1.2406 1.2183	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1043 1.1043 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.0854 1.0693 1.0628 1.0574	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7 912.1 869.5 828.9 793.3	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .917 .901 .877 .820 .790 .761 .734	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096 .9783 .9459 .9115 .8741 .8349 .7954 .7578 .7249
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.136 7.788 7.457 7.139 6.528 6.232 5.944 5.665 5.388 5.10 4.827 4.263 3.736 3.327	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59 19.07 18.62 18.23 17.90 17.65	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.65 12.60 12.60 12.60 12.60 12.63 12.79 12.83	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751 1.3334 1.2976 1.2671 1.2406 1.2183 1.2013	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1086 1.1133 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.0854 1.0767 1.0693 1.0628 1.0574 1.0531	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7 912.1 869.5 828.9 793.3 765.0	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .917 .901 .877 .850 .790 .761 .734 .710 .691	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096 .9783 .9459 .9115 .8741 .8349 .7954 .7578 .7249 .6987
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.136 7.788 7.457 7.139 6.538 6.538 6.238 5.944 5.665 5.380 4.827 4.544 4.263 3.736 3.509	PRESS. 18.03 18.54 19.08 19.65 20.11 20.54 20.93 21.35 21.80 22.11 21.55 20.87 20.21 19.59 19.07 18.62 18.23 17.90	PRESS. 13.33 13.39 13.40 13.37 13.31 13.23 13.15 13.05 12.94 12.83 12.65 12.60 12.60 12.60 12.79	PRESS. RATIO 1.2271 1.2614 1.2987 1.3374 1.3687 1.3977 1.4241 1.4532 1.4837 1.5050 1.4667 1.4201 1.3751 1.3334 1.2976 1.2671 1.2406 1.2183	TEMP. RATIO 1.0850 1.0922 1.0971 1.1003 1.1043 1.1043 1.1043 1.1177 1.1221 1.1256 1.1168 1.1060 1.0954 1.0854 1.0693 1.0628 1.0574	VELOC. 1507.6 1443.8 1390.9 1347.7 1303.2 1259.8 1216.6 1177.7 1142.3 1106.6 1070.8 1034.2 995.8 954.7 912.1 869.5 828.9 793.3	MACH NUMBER .671 .698 .729 .762 .791 .818 .842 .869 .917 .901 .877 .820 .790 .761 .734	MACH NUMBER 1.3533 1.2960 1.2507 1.2157 1.1780 1.1409 1.1035 1.0702 1.0404 1.0096 .9783 .9459 .9115 .8741 .8349 .7954 .7578 .7249

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE	DENS- ITY	BLOC- KAGE
1 2 3 4	8.500 8.136 7.788 7.457	-6.984 -6.987 -6.994 -7.002	13.66 14.94 15.79 16.33	0.00 35 10	0.0000 .0073 .0061	. Ø697 . Ø7ØØ . Ø7Ø3	.1323 .1329 .1367
5	7.437	-7.008	17.17	. 82 2. 22	. 0049 . 0036	. 0706 . 0706	.1431 .1537
6	6.830	-7.016	18.13	3.85	. 0004	. 0704	.1668
7	6.528	-7.024	19.28	5.63	0039	.0702	.1821
8 9	6.232 5.944	-7.033 -7.037	20.44 21.65	7.53 9.53	0087 0131	. Ø699 . Ø697	.1955 .2090
10	5.665	-7.037 -7.035	22.95	11.59	0160 0160	.0693	.2215
11	5.388	-7.034	22.86	13.66	0168	.0689	.2338
12	5.110	-7.039	22.49	15.75	0142	.0687	.2457
13	4.827	-7.055	22.09	17.89	0093	.0685	.2570
14 15	4.544 4.263	-7.080 -7.106	21.77 21.62	20.04 22.14	0018 .0079	.0685 .0687	.2684
16	3.992	-7.106	21.64	24.13	.0079	. Ø689	.2802 .2931
17	3.736	-7.156	21.72	25.89	.0323	.0691	.3057
18	3.509	-7.178	21.82	27.34	. 0467	.0693	.3185
19	3.327	-7.196	21.90	28.38	.0622	. 0694	. 3305
20 21	3.207 3.165	-7.208 -7.212	21.96 21.98	28.96 29.15	.0751	.0695	.3391
التا ال	3.103	-/* 515	C1. 20	E2.17	.0802	.0696	.3423
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER 1	ANGLE -61.06	ANGLE -6.91	1497.5			1010	
ė.	~58.38	-3.53	1433.4			.1010 .0998	
3	-55.36	68	1372.1			.0836	
4	-52.13	1.41	1313.7			.0552	
5	-48.43	1.11	1257.7			.0351	
€, 7	-45.09 -41.97	.38 .7	1203.2			0161	
8	-39.00	67 -1.58	1150.0 1097.9			.0003 0213	
9	-36.24	-2.43	1047.3			0479	
10	-33.82	-3.19	998. Ø			0711	
11	-31.59	-3.49	949.3			0925	
12	-29.68	-3.15	900.2			1126	
13 14	-27.78 -26.14	-2.87 -2.64	850.5 800.5			1315	
15	-24.84	-1.40	751.1			1483 1637	
16	-23.66	.00	703.2			1764	
17	-22.79	2.00	658.2			1848	
1.8	-22.19	3.77	618.3			1891	
19 20	-21.95 -21.82	4.46 4.90	586.1			1895	
21	-21.78	4.90 5.05	565.0 557.5			1879 1869	
			W = 1 W			• 1003	

STRM-	RADIUS	AXIAL	AXIAL	MERID.	TANG.	ABSOL.	TOTAL	STATIC
LINE		COORD.	VELOC.	VELOC.	VELOC.	VELOC.	TEMP.	TEMP.
NUMBER								
1	8.500	-6.594	648.3	648.3	286.6	708.7	590.15	548.36
2	8.134	-6.560	670.6	670.7			593.71	548.08
3	7.788	-6.534	703.8	703.8	337.0		595.67	545.03
4	7.465	-6.513	742.8	743.0	355.6		596.54	540.11
5	7.159	-6.495	768.9					
				769.8	379.2		598.31	537.06
6	6.866	-6.480	789.2	791.4	405.3		600.31	534.54
7	6.582	-6.47Ø	803.9	808.3	435.5		602.75	532.62
8		-6.463	820.3	827.7	467.0		605.06	529.91
Э		-6.455	836.4	848. Ø	500.1		607.26	526.64
10		-6.440	844.4	861.2	533.7	1013.2	609.20	523.80
11	5. 533	-6.425	827.9	850.7	528.6	1001.6	604.45	520.99
12	5.281	-6.420	808.1	838.3	516.7	984.7	598.71	518.02
13	5.027	-6.432	787.8	827.1	503.7	968.4	592.96	514.91
14	4.768	-6.464	764.4	814.4			587.04	511.98
15		-6.510	737.5	799.3	473.7		581.34	509.50
16		-6.555	708.2	782.4	462.1		576.37	507.66
17		-6.597	678.1	764.4		888.4		506.37
18		-6.634	649.5	746.3		869.1		505.53
19		-6.665	625.3	730.3				505.03
50						852.6		
	3.511	-6.685	608.9	719.1		841.0		504.78
21	3.470	-6.692	603.1	715.0	435.4	836.8	563.03	504.71
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
LINE	11112200	PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH.	MACH
NUMBER		LITTON	PILLUG.	RATIO	RATIO	ViiiiUi.	NUMBER	
1	8.500	20.31	15.71	1.3824		1373.5		
					1.1377			1.1962
2 3	8.134	20.97	15.85	1.4270	1.1446	1304.2		1.1362
	7.788	21.70	15.90	1 44 / / 1		132-1 /		1.0934
4				1.4771	1.1484	1251.7		
	7.465	22.49	15.88	1.5302	1.1500	1213.5	.723	1.0649
5	7.159	22.49 23.08	15.88 15.81	1.5302 1.5708	1.1500 1.1535	1213.5 1170.7	.723 .755	1.0649 1.0303
6	7.159 6.866	22.49 23.08 23.62	15.88 15.81 15.73	1.5302 1.5708 1.6074	1.1500 1.1535 1.1573	1213.5 1170.7 1128.3	. 723 . 755 . 784	1.0649 1.0303 .9953
6 7	7.159 6.866 6.582	22.49 23.08 23.62 24.10	15.88 15.81 15.73 15.63	1.5302 1.5708 1.6074 1.6401	1.1500 1.1535 1.1573 1.1620	1213.5 1170.7	. 723 . 755 . 784	1.0649 1.0303 .9953 .9589
6 7 8	7.159 6.866 6.582 6.306	22.49 23.08 23.62 24.10 24.64	15.88 15.81 15.73	1.5302 1.5708 1.6074	1.1500 1.1535 1.1573	1213.5 1170.7 1128.3	.723 .755 .784 .811	1.0649 1.0303 .9953
6 7 8	7.159 6.866 6.582	22.49 23.08 23.62 24.10 24.64	15.88 15.81 15.73 15.63 15.49	1.5302 1.5708 1.6074 1.6401	1.1500 1.1535 1.1573 1.1620 1.1665	1213.5 1170.7 1128.3 1085.1 1048.7	.723 .755 .784 .811 .842	1.0649 1.0303 .9953 .9589
6 7 8	7.159 6.866 6.582 6.306	22.49 23.08 23.62 24.10 24.64 25.21	15.88 15.81 15.73 15.63 15.49	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4	.723 .755 .784 .811 .842 .875	1.0649 1.0303 .9953 .9589 .9291
6 7 8 9	7.159 6.866 6.582 6.306 6.040	22.49 23.08 23.62 24.10 24.64 25.21 25.61	15.88 15.81 15.73 15.63 15.49 15.31 15.09	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5	.723 .755 .784 .811 .842 .875	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809
6 7 8 9 10 11	7.159 6.866 6.582 6.306 6.040 5.784 5.533	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6	.723 .755 .784 .811 .842 .875 .903	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809
6 7 8 9 10 11	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8	.723 .755 .784 .811 .842 .875 .903 .895	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583
6 7 8 9 10 11 12 13	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85 14.59	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0	.723 .755 .784 .811 .842 .875 .903 .895 .882	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377
6 7 8 9 10 11 12 13	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.32	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9	.723 .755 .784 .811 .842 .875 .903 .895 .882 .870	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994
6 7 8 9 10 11 12 13 14	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768 4.508	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69 21.96	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.32 14.06 13.84	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965 1.5442 1.4944	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317 1.1207	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9 861.1	.723 .755 .784 .811 .842 .875 .903 .895 .882 .870 .856	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994
6 7 8 9 10 11 12 13 14 15 16	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768 4.508 4.254	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69 21.96 21.32	15.88 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.32 14.06 13.84 13.68	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965 1.5442 1.4944 1.4511	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317 1.1207 1.1112	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9 861.1 833.5	.723 .755 .784 .811 .842 .875 .903 .895 .882 .870 .856	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994 .7780
6 7 8 9 10 11 12 13 14 15 16 17	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768 4.254 4.014	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69 21.32 20.78	15.88 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.66 13.68 13.68	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965 1.5442 1.4944 1.4511	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317 1.1207 1.1112 1.1029	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9 861.1 833.5 805.4	.723 .755 .784 .811 .842 .875 .903 .895 .882 .870 .856 .839 .822	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994 .7780 .7544
6 7 8 9 10 11 12 13 14 15 16 17 18	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768 4.508 4.254 4.014 3.800	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69 21.96 21.78 20.78	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.32 14.06 13.68 13.68 13.48	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965 1.5442 1.4944 1.4511 1.4140 1.3828	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317 1.1207 1.1112 1.1029 1.0959	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9 861.1 833.5 805.4 779.0	.723 .755 .784 .811 .842 .875 .903 .895 .882 .870 .856 .839 .822 .805	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994 .7780 .7544 .7300 .7066
6 7 8 9 10 11 12 13 14 15 16 17 18 19	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768 4.254 4.014 3.800 3.626	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69 21.32 20.78 20.32 19.96	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.32 14.06 13.68 13.56 13.48	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965 1.5442 1.4944 1.4511 1.4140 1.3828 1.3585	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317 1.1207 1.1207 1.1112 1.1029 1.0959 1.0903	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9 861.1 833.5 805.4 779.0 756.8	. 723 . 755 . 784 . 811 . 842 . 875 . 903 . 895 . 882 . 870 . 856 . 839 . 822 . 805 . 788 . 774	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994 .7780 .7544 .7300 .7066
6 7 8 9 10 11 12 13 14 15 16 17 18	7.159 6.866 6.582 6.306 6.040 5.784 5.533 5.281 5.027 4.768 4.508 4.254 4.014 3.800	22.49 23.08 23.62 24.10 24.64 25.21 25.61 24.98 24.21 23.46 22.69 21.32 20.78 20.32 19.96 19.73	15.88 15.81 15.73 15.63 15.49 15.31 15.09 14.85 14.59 14.32 14.06 13.68 13.68 13.48	1.5302 1.5708 1.6074 1.6401 1.6771 1.7158 1.7430 1.6999 1.6475 1.5965 1.5442 1.4944 1.4511 1.4140 1.3828	1.1500 1.1535 1.1573 1.1620 1.1665 1.1707 1.1744 1.1653 1.1542 1.1431 1.1317 1.1207 1.1112 1.1029 1.0959	1213.5 1170.7 1128.3 1085.1 1048.7 1018.4 988.5 960.6 934.8 911.0 886.9 861.1 833.5 805.4 779.0	. 723 . 755 . 784 . 811 . 842 . 875 . 903 . 895 . 882 . 870 . 856 . 839 . 822 . 805 . 788 . 774	1.0649 1.0303 .9953 .9589 .9291 .9050 .8809 .8583 .8377 .8188 .7994 .7780 .7544 .7300 .7066

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE	DENS- ITY	BLOC- KAGE
1	8.500	-6.594	23.85	0.00	Ø. ØØØØ	. 0773	.1289
2	8.134	-6.560	25.12	03	.0189	.0780	.1307
3	7.788	-6.534	25.59	.32	.0258	.0788	. 1345
4	7.465	-6.513	25.58	1.33	.0310	.0793	.1399
5	7.159	-6.495	26.22	2.75	.0328	.0795	.1490
6	6.866	-6.480	27.12	4.32	.0307	.0794	.1596
7	6.582	-6.470	28.32	5.97	.0252	.0792	.1720
8	6.306	-6.463	29.43	7.67	.0177	.0789	. 1840
9	6. Ø4Ø	-6.455	30.53	9.47	. 0098	.0785	.1962
10	5.784	-6.440	31.79	11.34	.0021	.0778	.2078
11	5. 533	-6.425	31.86	13.30	0030	. 0769	.2201
12	5.281	-6.420	31.65	15.43	0033	. 2760	. 2335
13	5.027	-6.432	31.34	17.73	. ଉଉଉନ	. 0750	.2484
14	4.768	-6.464	30.97	20.17	. 0087	.0741	. 2649
15	4.508	-6.510	30.66	22.68	.0207	.0733	.2833
16	4.254	-6.555	30.57	25.16	.0363	.0727	.3010
17		-6.597	30.67	27.48	. 0540	.0723	.3196
18	3.800	-6.634	30.87	29.51	.0724	.0720	. 3363
19	3.626	-6.665	31.09	31.11	.0892	.0718	.3513
20	3.511	-6.685	31.27	32.13	.1017	.0717	.3620
21	3.470	-6.692	31.34	32.49	.1065	. 0717	.3658
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE	ANGLE					
1	-57.39	-11.17	1497.5			. 1564	
2	-54.73	-4.85	1433.0			. 1496	
3	-51.50	. 54	1372.1			.1231	
4	-48.06	4.61	1315.1			. Ø8Ø4	
5	-44.32	4.46	1261.2			. 0504	
6	-40.80	3.59	1209.6			.0223	
7	-37.41	1.94	1159.5			0011	
8	-34.33	75	1110.9			0327	
9	-31.52	24	1064.0			0712	
10	-28.78	-1.15	1018.9			1050	
11	-25.83	-2.04	974.7			1374	
12	-23.21	-1.70	930.4			1700	
13 14	-20.48	-1.18	885.6			2032	
15	-18.27 -16.45	72	840.0			2345	
16	-15.21	28 .78	794.1			~. 2633	
17	-14.14	1.78	749.4 707.2			2881	
18	-13.80	2.72	669.5			3070	
19	-13.61	3.49	638.8			3190	
20	-13.51	4.00	618.5			3236	
21	-13.49	4. Ø7	611.3			3234	
						3226	

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-6.196	596.5	596.4	426.3	733.2	624.90	580.24
į	8.136	-6.126	612.2	612.1	449.7	759.6		577.99
3	7. 793	-6.068	651.3	651.3	465.9	800.9		571.83
			636.4	698.9	477.4	846.5		563.81
4	7.480	-6.021			495.9	879.1	623.18	558.94
5	7.188	-5.981	724.1	725.8				555.11
6	6.910	-5.948	741.6	745.1	517.6	907.3		552.36
7	6.643	-5.921	751.5	757.2	544.2	932.6	624.66 625.73	
8	6.385	-5.900	763.5	772.6	572.0	961.4		548.89
9	6.137	-5.881	776.6	789. Ø	600.8	991.8	626.77	544.98
10	5.901	-5.857	780.3	797.1	630.0	1016.1	627.66	541.82
11	5.673	-5.830	767.8	789.8	633.3		624.00	538.76
12	5.449	-5.810	754.5	783.4	632.9		619.78	535.41
1.3	5.226	-5.807	742.2	760.3	632.8	1004.7	615.65	531.68
14	5.005	-5.825	728.7	770.4	631.4	1002.4	611.34	527.76
15	4.781	-5.867	712.1	776. Ø	628. 1	998.3	606.75	523.82
16	4.560	-5.923	691.6	771.6	625.3	993.1	602.31	520.24
17	4.350	-5.978	668.6	765.4	625.0	988. 1	598.42	517.17
18	4.163	-6.027	645.5	758.5	625.4	983.6	595 17	514.65
19	4.011	-6. Ø66	625.2	751.7	628.3	979.6	592.61	512.74
20	3.911	-6.092	611.2	746.8	629.6	976.7	590.92	511.52
21	3.876	-6.101	606.2	745. Ø	630.1	975.6	590.33	511.10
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
LINE								
L 1 1 1 i.m		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER		PRESS.	PRESS.	RATIO	TEMP. RATIO	VELOC.	NUMBER	NUMBER
NUMBER	8.500	PRESS. 23.45	PRESS.			VELOC.		
NUMBER 1	8.500 8.136			RATIO	RATIO		NUMBER	NUMBER
NUMBER 1 2	8.136	23.45	18.08	RATIO 1.5958	RATIO 1.2047	1226.0	NUMBER .621	NUMBER 1.0380
NUMBER 1 2 3	8.136 7.793	23.45 24.10	18.08 18.23	RATIO 1.5958 1.6401	RATIO 1.2047 1.2067	1226.0 1158.4	NUMBER . 621 . 644	NUMBER 1.0380 .9827
NUMBER 1 2 3 4	8.136 7.793 7.480	23.45 24.10 24.87 25.71	18.08 18.23 18.20	RATIO 1.5958 1.6401 1.6925	RATIO 1.2047 1.2067 1.2052	1226.0 1158.4 1116.7	NUMBER .621 .644 .683	NUMBER 1.0380 .9827 .9524
NUMBER 1 2 3 4 5	8.136 7.793 7.480 7.188	23.45 24.10 24.87 25.71 26.26	18.08 18.23 18.20 18.08	RATIO 1.5958 1.6401 1.6925 1.7495	RATIO 1.2047 1.2067 1.2052 1.2018	1226.0 1158.4 1116.7 1092.9	NUMBER .621 .644 .683 .727	NUMBER 1.0380 .9827 .9524 .9387
NUMBER 1 2 3 4 5 6	8.136 7.793 7.480 7.188 6.910	23.45 24.10 24.87 25.71 26.26 26.72	18.08 18.23 18.20 18.08 17.93	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868	RATIO 1.2047 1.2067 1.2052 1.2018 1.2014	1226.0 1158.4 1116.7 1092.9 1058.5	NUMBER .621 .644 .683 .727 .758	NUMBER 1.0380 .9827 .9524 .9387 .9131
NUMBER 1 2 3 4 5 6 7	8.136 7.793 7.480 7.188 6.910 6.643	23.45 24.10 24.87 25.71 26.26	18.08 18.23 18.20 18.08 17.93 17.78	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184	RATIO 1.2047 1.2067 1.2052 1.2018 1.2014 1.2021	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2	NUMBER .621 .644 .683 .727 .758 .785	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526
NUMBER 1 2 3 4 5 6	8.136 7.793 7.480 7.188 6.910 6.643 6.385	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59	18.08 18.23 18.20 18.08 17.93 17.78	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184	RATIO 1.2047 1.2067 1.2052 1.2018 1.2014 1.2021 1.2043	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5	NUMBER .621 .644 .683 .727 .758 .785 .809	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526
NUMBER 1 2 3 4 5 6 7 8 9	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.10	18.08 18.23 18.20 18.08 17.93 17.78 17.62 17.43 17.22	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121	RATIO 1.2047 1.2052 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2083	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0	NUMBER .621 .644 .683 .727 .758 .785 .809	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526
NUMBER 1 2 3 4 5 6 7 8 9 10	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.10 28.40	18.08 18.23 18.00 18.08 17.78 17.62 17.62 17.43 17.22	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121	RATIO 1.2047 1.2067 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2083 1.2083	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .8070
NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.10 28.40 27.89	18.08 18.23 18.20 18.08 17.93 17.78 17.62 17.43 17.22 16.96 16.68	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121 1.9325 1.8983	RATIO 1.2047 1.2067 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2083 1.2101 1.2030	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .8070 .7852
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.10 28.40 27.89 27.31	18.08 18.20 18.08 17.93 17.78 17.62 17.43 17.22 16.96 16.68	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9325 1.9325 1.8983	RATIO 1.2047 1.2052 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2063 1.2101 1.2030 1.1948	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .8070 .7852 .7649 .7482
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.226	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.40 27.89 27.31 26.75	18.08 18.20 18.08 17.93 17.78 17.62 17.43 17.22 16.96 16.68 16.36	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121 1.9325 1.8983 1.8583 1.8205	RATIO 1.2047 1.2052 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8	NUMBER	NUMBER 1. 0380 . 9827 . 9524 . 9387 . 9131 . 8848 . 8526 . 8270 . 8070 . 7852 . 7649 . 7482 . 7357
NUMBER 1 2 3 4 5 6 7 8 9 1 0 1 1 2 1 3 1 4	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.226 5.005	23.45 24.10 24.87 25.71 26.26 27.11 27.59 28.10 28.40 27.31 26.75 26.16	18.08 18.20 18.08 17.78 17.62 17.43 17.22 16.96 16.68 16.36 16.01	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121 1.9325 1.8983 1.8583 1.8205 1.7805	RATIO 1.2047 1.2052 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869 1.1786	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8 817.7	NUMBER	NUMBER 1. 0380 . 9827 . 9524 . 9387 . 9131 . 8848 . 8526 . 8270 . 8070 . 7852 . 7649 . 7482 . 7357 . 7259
NUMBER 1 2 3 4 5 6 7 8 9 1 0 1 1 2 1 3 4 1 5 1 4 1 5	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.226 5.005 4.781	23.45 24.10 24.87 25.71 26.26 27.11 27.59 28.10 28.40 27.89 27.31 26.75 26.16 25.53	18.08 18.23 18.00 18.08 17.78 17.62 17.43 17.22 16.96 16.68 16.36 16.01 15.64	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8774 1.9121 1.9325 1.8983 1.8583 1.8583 1.8205 1.7805 1.7375	RATIO 1.2047 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2083 1.2083 1.2101 1.2030 1.1948 1.1869 1.1786 1.1697	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8 817.7 805.0	NUMBER	NUMBER 1. 0380 . 9827 . 9524 . 9387 . 9131 . 8848 . 8526 . 8270 . 7852 . 7649 . 7482 . 7357 . 7259 . 7173
NUMBER 1 2 3 4 5 6 7 8 9 1 0 1 1 2 1 3 1 4 1 5 1 6	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.005 4.781 4.560	23.45 24.10 24.87 25.71 26.26 27.11 27.59 28.10 28.40 27.89 27.31 26.75 26.16 25.53 24.91	18.08 18.20 18.08 17.93 17.62 17.62 17.43 17.22 16.96 16.68 16.36 15.64 15.64	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8774 1.9121 1.9325 1.8983 1.8583 1.8583 1.8205 1.7805 1.7375 1.6952	RATIO 1.2047 1.2067 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869 1.1786 1.1697 1.1612	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8 817.7 805.0 791.8	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .7852 .7649 .7482 .7259 .7173 .7080
NUMBER 1 2 3 4 5 6 7 8 9 0 1 1 2 3 1 4 5 1 5 1 5 1 7	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.005 4.781 4.560 4.350	23.45 24.10 24.87 25.71 26.26 27.11 27.59 28.40 27.89 27.31 26.75 26.75 26.16 25.53 24.91 24.36	18.08 18.20 18.08 17.93 17.62 17.62 17.63 17.63 16.96 16.36 16.01 15.64 15.26 14.92	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8774 1.9121 1.9325 1.8983 1.8583 1.8583 1.8205 1.7805 1.7375 1.6952 1.6580	RATIO 1.2047 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869 1.1697 1.1612 1.1537	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8 817.7 805.0 791.8 778.3	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .7852 .7649 .7482 .7259 .7173 .7080 .6980
NUMBER 1 2 3 4 5 6 7 8 9 1 0 1 1 2 1 4 1 5 1 6 7 1 8	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.226 5.005 4.560 4.350 4.163	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.40 27.89 27.31 26.75 26.16 25.53 24.91 24.36 23.91	18.08 18.20 18.08 17.93 17.62 17.62 17.43 17.26 16.68 16.36 16.36 16.01 15.64 15.26 14.92 14.62 14.38	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121 1.9325 1.8983 1.8583 1.8205 1.7375 1.6952 1.6580 1.6272	RATIO 1.2047 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869 1.1697 1.1612 1.1537 1.1474	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8 817.7 805.0 791.8 778.3 766.0	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .7852 .7649 .7482 .7259 .7173 .7080 .6980
NUMBER 1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 8 19	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.226 5.005 4.781 4.560 4.163 4.011	23.45 24.10 24.87 25.71 26.26 27.11 27.59 28.40 27.89 27.31 26.75 26.16 25.53 24.91 24.36 23.91 23.56	18.08 18.20 18.08 17.78 17.62 17.43 17.62 17.43 17.62 16.96 16.68 16.36 16.01 15.64 15.26 14.92 14.62 14.38 14.19	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8774 1.9121 1.9325 1.8583 1.8583 1.8585 1.7805 1.7375 1.6952 1.6580 1.6272 1.6031	RATIO 1.2047 1.2052 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869 1.1786 1.1697 1.1612 1.1537 1.1474 1.1425	1226. Ø 1158. 4 1116. 7 1092. 9 1058. 5 1022. 2 982. 5 950. Ø 923. 8 870. 5 848. 9 831. 8 817. 7 805. Ø 791. 8 778. 3 766. Ø 755. 8	NUMBER	NUMBER 1. 0380 . 9827 . 9524 . 9387 . 9131 . 8848 . 8526 . 8270 . 8070 . 7852 . 7649 . 7482 . 7357 . 7259 . 7173 . 7080 . 6980 . 6886
NUMBER 1 2 3 4 5 6 7 8 9 1 0 1 1 2 1 4 1 5 1 6 7 1 8	8.136 7.793 7.480 7.188 6.910 6.643 6.385 6.137 5.901 5.673 5.449 5.226 5.005 4.560 4.350 4.163	23.45 24.10 24.87 25.71 26.26 26.72 27.11 27.59 28.40 27.89 27.31 26.75 26.16 25.53 24.91 24.36 23.91	18.08 18.20 18.08 17.93 17.62 17.62 17.43 17.26 16.68 16.36 16.36 16.01 15.64 15.26 14.92 14.62 14.38	RATIO 1.5958 1.6401 1.6925 1.7495 1.7868 1.8184 1.8448 1.8774 1.9121 1.9325 1.8983 1.8583 1.8205 1.7375 1.6952 1.6580 1.6272	RATIO 1.2047 1.2052 1.2018 1.2014 1.2021 1.2043 1.2063 1.2063 1.2083 1.2101 1.2030 1.1948 1.1869 1.1697 1.1612 1.1537 1.1474	1226.0 1158.4 1116.7 1092.9 1058.5 1022.2 982.5 950.0 923.8 896.2 870.5 848.9 831.8 817.7 805.0 791.8 778.3 766.0	NUMBER	NUMBER 1.0380 .9827 .9524 .9387 .9131 .8848 .8526 .8270 .7852 .7649 .7482 .7259 .7173 .7080 .6980

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE	DENS- ITY	BLOC- KAGE
1	8.500	-6.196	35.56	0.00	Ø. 0000	.0841	.1236
2	8.136	-6.126	36.31	. 33	. 0098	.0851	. 1254
3	7.793	-6.068	35. 58	1.14	. 0356	. Ø859	. 1281
4	7.480	-6.021	34.34	2.50	.0517	. 0866	.1314
5	7.188	-5.981	34.34	4.08	. 0568	. Ø866	.1358
6	6.910	-5.948	34.79	5.64	. 0550	.0865	.1410
7	6.643	-5.921	35.70	7.16	. 0500/	.0861	. 1474
8	6.385	-5.900	36.51	8.67	. 0435	.0857	. 1537
9	6.137	-5.881	37.29	10.22	.0356	. 0853	. 1599
10	5.901	-5.857	38.32	11.83	. 0268	.0845	.1666
11	5.673	-5.830	38.72	13.59	.0197	.0835	. 1739
12	5.449	-5.810	38.93	15.65	.0158	.0825	.1826
13	5.226	-5.807	39.04	18.01	.0145	.0813	. 1942
14	5.005	-5.825	39.05	20.62	.0147	. 0800	.2069
15	4.781	-5.867	38.99	23.43	.0174	.0786	. 2252
16 17	4.56Ø	-5.923	39.02	26.33	.0230	. 0774	.2451
18	4.350 4.163	-5.978 -6.027	39.23	29.15	.0302	.0763	.2653
19	4.011	-6.066	39.55 39.89	31.69 33.75	.0373	.0754	.2849
20	3.911	-6.092	40.13	35.09	• Ø434 Ø470	. 0747	.3020
21	3.876	-6.101	40.13	35.56	. 0470 . 0480	.0743 .0741	.3132
	0.010	D: 101	70.66	20.00	* 6.406	* 6:1-47	.3172
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE	ANGLE					
1	-55.48	-17.43	1497.5			.2199	
2	-53,24	-6.84	1433.3			. 2025	
3	-50.02	2.24	1373.0			.1622	
4	-46.60	8.67	1317.7			.1031	
5	-42.50	9.58	1266.3			.0619	
6	-38.67	9.12	1217.4			.0242	
7	-34.94	7.01	1170.3			2071	
8 9	-31.28 -27.86	5.46	1124.8			0481	
		4.38	1081.2			- 0974	
10 11	-24.59 -21.20	3.68	1039.6			1410	
12	-17.63	3.33 3.20	999.4			1838	
13	-14.02	3.57	959.9 920.8			2297	
14	-10.53	3.91	881.7			2800 3323	
15	-7.98	3.48	842.3			3840	
16	-5.77	3.06	803.3			-, 3040 -, 4306	
17	- 4.78	2.92	766.3			-, 4698	
18	-4.19	2.87	733.4			4997	
19	-3.74	2.83	706.7			5177	
20	-3.80	2.90	689. Ø			5252	
21	-3.83	2.92	682.8			5268	

ROTOR 1 STA NO. 1	STATI 1 RPM	ION 7.0 2018		FLOW TIP SPEED	60.78 1497.		CT RATIO DF BLADES	
STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.		STATIC TEMP,
1 2 3 4 5 6 7 8	8.500 8.139 7.807 7.508 7.233 6.971 6.719 6.476	-5.777 -5.672 -5.587 -5.519 -5.464 -5.416 -5.373 -5.343	712.7 722.1	576.1 622.0 674.2 697.2 712.7 720.3 732.7	609.1 615.6 612.4 605.0 608.2 616.3 630.6 646.2	843.3 873.1 906.1 925.3 942.4 957.5	651.76 647.56 644.56 642.83 641.32	614.36 606.44 595.47 583.60 576.45 570.80 566.66 562.00
9 10 11 12 13 14 15	6.245 6.026 5.817 5.618 5.428 5.246 5.073 4.906	-5.314 -5.283 -5.247 -5.216 -5.196 -5.192 -5.206 -5.238	731.7 730.6 724.8 719.7 716.4 713.3 709.8 704.0	745.9 748.7 747.8 749.0 754.0 761.1 770.2 779.6	662.6 679.2 696.2 714.0 733.7 754.1 775.3 798.7	1011.1 1021.9 1035.0 1052.2 1071.6 1093.1	638.63 637.38 636.25 635.40 634.63	557.21 553.67 550.58 547.21 543.37 539.17 534.62 529.92
17 18 19 20 21	4.749 4.608 4.495 4.421 4.395 RADIUS	-5.282 -5.328 -5.368 -5.394 -5.403	694.6 682.0 668.4 657.6 653.4	787.6 793.4 796.5 797.4 797.6	823.4 847.1 867.4 881.3 886.4	1139.6 1160.8 1177.7 1188.7 1192.5	633.28 633.10 632.96	525.29 521.04 517.61 515.37 514.59
LINE NUMBER 1 2 3 4	8.500 8.139 7.807 7.508	PRESS. 27.96 28.31 28.83 29.44	PRESS. 20.59 20.44 20.23 19.98	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565	VELOC. 1045.2 1000.7 984.4 984.7	MACH NUMBER .676 .698 .730 .765	MACH NUMBER . 8600 . 8288 . 8227 . 8313
6 7 8 9 10 11	7.233 6.971 6.719 6.476 6.245 6.026 5.817	29.64 29.76 29.79 29.96 30.17 30.15	19.15 18.86 18.57 18.28 17.97	2.0251 2.0276 2.0390 2.0534 2.0517 2.0432	1.2393 1.2364 1.2337 1.2312 1.2288	908.2 884.1 864.8 840.7 816.8	.804 .820 .841 .862 .876	.8190 .8018 .7781 .7606 .7471 .7287 .7099
12 13 14 15 16 17 18 19 20	5.618 5.428 5.246 5.073 4.906 4.749 4.608 4.495 4.421	29.92 29.87 29.83 29.80 29.76 29.75 29.75	17.27 16.85 16.40 15.93 15.46 15.04	2.0330 2.0303 2.0279 2.0264 2.0256 2.0249 2.0245	1.2266 1.2250 1.2235 1.2222 1.2214 1.2209 1.2205 1.2203 1.2201	798.2 786.2 779.9 779.2 782.3 787.8 794.2 800.1	.902 .921 .941 .964 .989 1.014 1.037 1.056	.6959 .6878 .6850 .6873 .6931 .7010 .7096 .7172
21	4.395	29.74	14.41		1.2201	805.4	1.072	.7241

	TOR 1	STAT			FLOW			CT RATIO	1.45
STA	9 NO. :	11 RPM	201	88.	TIP SPEE	D 1497.	NO.	OF BLADES	20
	STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-	D-
	LINE		COORD.	FLOW	LINE	TURE	ITY		FACTOR
	NUMBER			ANGLE	SLOPE			1111070	, ,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
	1	8.500	-5.777	47.89	0.00	0.0000	.0905	.1168	.5167
	2	8.139	-5.672	46.90	1.10	.0342	.0910		.5205
	3	7.807	-5.587	44.55	2.58	.0512	.0917	.1175	.5102
	4	7.508	-5.519	41.90	4.17	.0498	.0924	.1178	. 4906
	5	7.233	-5.464	41.10	5.69	.0412	.0923	.1175	. 4845
	6	6.971	-5.416	40.85	7.12	.0341	.0919	.1174	. 4817
	7	6.719	-5.376	41.20	8.50	.0295	.0912	.1172	. 4840
	8	6.476	-5, 343	41.41	9.87	.0269	. 0906	.1172	4806
	9	6.245	-5.314	41.62	11.27	.0249	. 0900	.1173	.4720
	10	6.026	-5.283	42.21	12.73	0244	.0891	.1175	4642
	11	5.817	-5.247	42.95	14.33	.0222	.0881	.1175	4549
	12	5.618	-5.216	47.63	16.16	.0133	.0870	. 1176	. 4416
	13	5.428	-5.196	44.22	18.22	0034	.0858	.1191	.4209
	14	5.246	-5.192	44.73	20.47	0261	Ø844	. 1218	3942
	15	5.073	-5. 206	45.19	22.89	0528	.0828	.1247	. 3591
	16	4.906	-5.238	45.69	25.48	0775	.0811	.1356	. 3184
	17	4.749	-5.282	46.27	28.16	0928	.0795	.1512	. 2755
	18	4.608	-5.328	46.87	30.76	0976	.0779	. 1660	. 2329
	19	4.495	-5.368	47.44	32.97	0952	. 0767		.1988
	20	4.421	-5.394	47.86	34.48	0899		.1924	. 1776
	21	4.395	-5.403	48.02	35.01	0872	.0756	.1972	.1706
	STRM-	BLADE	BLADE	WHEEL	INCID-	DEVIA-	LOSS	ADIAB.	POLYT.
	LINE	SECT.	LEAN	SPEED	ENCE	TION		EFFIC.	EFFIC.
	NUMBER		ANGLE	0. 222	144	1 1014	COL. •	L. 1 1 1 L	L11 1 L.
	1	-53.64	-20.74	1497.5	-7.558	-4.579	. 2931	68.95	71.60
	8	-50.04	-7.91	1433.9	-7.581	-4.817	.2594	72.76	75.13
	3	-47.05	4.88	1375.4	-6.994	-3.757	.2060	78.55	80.47
	4	-44.05	13.05	1322.7	-7.011	-2.736	.1413	85. 52	86.86
	5	-40.53	15.90	1274.2	-7.232	-3.164	.1074	89.29	90.29
	6	-37.00	16.33	1228.0	-7.159	-3.638	.0836	91.98	92.73
	7	-33.23	14.08			-4.291	.0717		94.06
	8	-29.27	12.53	1141.0	-6.691	-4.759	.0529	95.43	95.66
	9	-25.22	12.19	1100.3	-6.580	-5.182	.0302	97.56	47.79
	10	-21.39	12.03	1061.6	-6.662	-5.661	.0197	98.51	48.66
	11	-16.73	13.52	1024.8		-6.995	.0154	98.92	99.02
	12	-12.32	14.93	989.8	-6.784	-7.888	.0105	99.32	99.38
	13	-7.08	16.04	956.3		-9.376	. 0030	99.83	99.84
	14	-1.45	16.89	924.3	-6.922		0051		100.25
	15	3.19	17.71	893.6	-6.672		0140		100.62
	16	7.28	17.11	864.3	-6.227	-12.090	··.0212		100.86
	17	10.95	15.80	836.6	-6.333		Ø267		100.99
	18	14.06	14.60	811.9	-6.205		0317		101.09
	19	16.56	13.65	791.9	-6.182		0356		101.17
	20	17.60	13.13	778.8	-5.967		0380		101.21
	21	17.95	12.94	774.2	-5.854	-9.952	0388		101.23

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL. TEMP.	STATIC TEMP.
1	8.500	-4.889	591.9	591.6	609.1	849.3	670.28	610.46
	8. 165	-4.817	627.0	627.1	613.7	877.6	665.43	601.52
2 3	7.858	-4.762	672.0	673.2	608.4	907.6	658.73	590.36
4	7.580	-4.712	718.8	721.6	599.3	938.2	651.76	578.67
5	7.322	-4.671	737.8	742.4	600.7	955.2	647.56	571.78
5 6	7.076	-4.642	750.4	757.0	607.1	970.5	644.56	566.31
7	6.839	-4.622	756.8	765.9	619.5	985.3	642.83	562.18
8	6.611	-4.610	768.7	780.9	633.1	1005.5	641.32	557.31
9	6.392	-4.606	781.6	797.7	647.4	1027.5	639.95	552.21
10	6. 183	-4.611	785.0	805.6	662.0	1042.9	638.63	548.24
11	5.981	-4.625	783.7	809.7	677.2	1055.8	637.38	544.72
īā	5.786	-4.647	781.8	814.3	693.4	1069.7	636.25	541.13
13	5.598	-4.678	779.8	820.0	711.4	1085.8	635.40	537.39
14	5.419	-4.719	776.4	825.4	730.1	1102.2	634.63	533.63
15	5.249	-4.769	771.9	830.9	749.3	1119.0	633.95	529.83
16	5.091	-4.824	766.4	836.7	769.6	1137.1	633.52	526.02
17	4.949	-4.880	760.5	843.7	790.1	1156.1	633.28	522, 13
18	4.826	-4.935	754.7	852.0	808.9	1175.0	633.10	518.28
19	4.731	-4.979	749.5	860.1	824.2	1191.4	632.96	514.90
20	4.670	-5.006	745.8	866.1	834.4	1202.8	632.88	512.55
21	4.649	-5.016	744.3	868.4	837.9	1206.9	632.85	511.71
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL.
	RADIUS							
LINE NUMBER 1	RADIUS 8.500			PRESS.	TEMP.		MACH	MACH
LINE NUMBER 1		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1 2 3	8.500	PRESS. 27.96	PRESS. 20.13	PRESS. RATIO 1.9927	TEMP. RATIO 1.2922	VELOC. 849.3	MACH NUMBER .701	MACH NUMBER .7010
LINE NUMBER 1 2 3 4	8.500 8.165	PRESS. 27.96 28.31	PRESS. 20.13 19.86	PRESS. RATIO 1.9027 1.9267	TEMP. RATIO 1.2922 1.2829	VELOC. 849.3 877.6	MACH NUMBER .701 .730	MACH NUMBER .7010 .7298 .7618 .7954
LINE NUMBER 1 2 3 4 5	8.500 8.165 7.858	PRESS. 27.96 28.31 28.83	PRESS. 20.13 19.86 19.62	PRESS. RATIO 1.9027 1.9267 1.9617	TEMP. RATIO 1.2922 1.2829 1.2699	VELOC. 849.3 877.6 907.6	MACH NUMBER .701 .730 .762	MACH NUMBER .7010 .7298 .7618 .7954 .8147
LINE NUMBER 1 2 3 4 5 6	8.500 8.165 7.858 7.580	PRESS. 27.96 28.31 28.83 29.44	PRESS. 20.13 19.86 19.62 19.40	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5	MACH NUMBER .701 .730 .762 .795 .815 .832	MACH NUMBER .7010 .7298 .7618 .7954 .8147
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.165 7.858 7.580 7.322 7.076 6.839	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.79	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3	MACH NUMBER .701 .730 .762 .795 .815 .832 .848	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.76	PRESS. 20.13 19.86 19.62 19.16 18.90 18.62 18.32	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3 1005.5	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.165 7.858 7.580 7.322 7.076 6.839	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.79	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3	MACH NUMBER .701 .730 .762 .795 .815 .832 .848	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.76	PRESS. 20.13 19.86 19.62 19.16 18.90 18.62 18.32	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312	VELDC. 849.3 877.6 907.6 938.2 955.2 970.5 905.3 1005.5 1027.5 1042.9	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.76 29.96 30.17 30.15 30.02	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62 18.32 17.99	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0251 2.0276 2.0534 2.0517 2.0432	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3 1005.5 1027.5 1042.9 1055.8	MACH NUMBER .701 .762 .762 .795 .815 .832 .848 .869 .892 .908	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.76 29.79 29.96 30.17 30.15	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62 18.32 17.99 17.66	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390 2.0534 2.0517 2.0432 2.0360	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 1005.5 1027.5 1042.9 1055.8 1069.7	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .998 .923	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084 .9226
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.981 5.786 5.598	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.76 29.96 30.17 30.15 30.02	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62 17.99 17.66 17.31	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0251 2.0256 2.0390 2.0534 2.0517 2.0432 2.0360 2.0330	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3 1005.5 1042.9 1055.8 1069.7	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .892 .908 .923 .938	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084 .9226 .9379
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.981 5.786 5.598 5.419	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.79 29.96 30.17 30.02 29.92 29.87 29.83	PRESS. 20.13 19.86 19.62 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.61 16.26	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390 2.0534 2.0517 2.0432 2.0330 2.0330	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2364 1.2337 1.2288 1.2266 1.2250 1.2250	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3 1005.5 1027.5 1042.9 1055.8 1069.7 1085.8	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .998 .923 .923 .935	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084 .9226 .9353 .9731
LINE NUMBER 1 23456789 10112314 15	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.981 5.786 5.598 5.419 5.249	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.79 29.96 30.17 30.15 30.02 29.92 29.87	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.61 16.89	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390 2.0534 2.0517 2.0432 2.0330 2.0330 2.0379	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3 1005.5 1027.5 1042.9 1055.8 1002.2 1119.0	MACH NUMBER .701 .762 .795 .815 .832 .848 .869 .992 .923 .923 .955 .973	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8688 .9084 .9084 .9226 .9353 .9731 .9915
LINE NUMBER 1 23456789 10112314516	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.981 5.786 5.598 5.419 5.249 5.091	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.79 29.96 30.17 30.02 29.87 29.83 29.80 29.78	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.26 15.89 15.52	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0256 2.0390 2.0534 2.0517 2.0432 2.0360 2.0303 2.0279 2.0264	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2235 1.2222 1.2214	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 985.3 1005.5 1027.5 1042.9 1055.8 11069.7 1085.8 1107.1	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .998 .923 .923 .935 .935 .973 .991	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084 .9226 .9379 .9553 .9731 .9915
LINE NUMBER 1 23456789 101123145121121121121121121121121121121121121121	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.981 5.786 5.598 5.419 5.249 5.091 4.949	PRESS. 27.96 28.31 28.83 29.44 29.76 29.76 29.96 30.17 30.15 30.02 29.87 29.88 29.78	PRESS. 20.13 19.86 19.62 19.40 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.61 16.89 15.52 15.14	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.02534 2.0537 2.0432 2.0330 2.0330 2.0279 2.0256	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250 1.2235 1.2214 1.2209	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 905.3 1005.5 1027.5 1042.9 1055.8 1102.2 1119.0 1137.1 1156.1	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .923 .923 .955 .973 .991 1.011	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8688 .9084 .9226 .9379 .9553 .9731 .9915 1.0111
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.786 5.786 5.598 5.419 5.249 5.091 4.949 4.826	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.96 30.17 30.15 30.02 29.92 29.87 29.83 29.76 29.75	PRESS. 20.13 19.86 19.62 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.61 16.26 15.89 15.52 15.14 14.76	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390 2.0534 2.0517 2.0432 2.0432 2.0303 2.0303 2.0279 2.0264 2.0249	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2250 1.2214 1.2209 1.2205	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 1005.5 1005.5 1027.5 1042.9 1069.7 1085.8 1102.2 1119.0 1137.1 1156.1	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .892 .908 .923 .935 .973 .991 1.011 1.032	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084 .9226 .9379 .9553 .9731 .9915 1.0526
LINE NUMBER 1 23456789 10112314 1516718 19	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.786 5.598 5.419 5.249 5.249 5.249 4.826 4.731	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.79 29.96 30.17 30.15 30.02 29.87 29.87 29.87 29.75	PRESS. 20.13 19.86 19.62 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.61 16.26 15.89 15.52 15.14 14.76 14.44	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0334 2.0534 2.0534 2.0534 2.0534 2.0534 2.05360 2.05360 2.05360 2.0545	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2252 1.2214 1.2209 1.2205 1.2203	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 1005.5 1027.5 1042.9 1055.8 10069.7 1085.8 1102.2 1119.0 1137.1 1156.1 1175.0 1191.4	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .908 .923 .923 .935 .973 .991 1.032 1.053	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8688 .9084 .9226 .9353 .9731 .9953 .9731 .99111 1.0319 1.0526
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18	8.500 8.165 7.858 7.580 7.322 7.076 6.839 6.611 6.392 6.183 5.786 5.786 5.598 5.419 5.249 5.091 4.949 4.826	PRESS. 27.96 28.31 28.83 29.44 29.64 29.76 29.96 30.17 30.15 30.02 29.92 29.87 29.83 29.76 29.75	PRESS. 20.13 19.86 19.62 19.16 18.90 18.62 17.99 17.66 17.31 16.96 16.61 16.26 15.89 15.52 15.14 14.76	PRESS. RATIO 1.9027 1.9267 1.9617 2.0034 2.0174 2.0251 2.0276 2.0390 2.0534 2.0517 2.0432 2.0432 2.0303 2.0303 2.0279 2.0264 2.0249	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2250 1.2214 1.2209 1.2205	VELOC. 849.3 877.6 907.6 938.2 955.2 970.5 1005.5 1005.5 1027.5 1042.9 1069.7 1085.8 1102.2 1119.0 1137.1 1156.1	MACH NUMBER .701 .730 .762 .795 .815 .832 .848 .869 .892 .908 .923 .935 .973 .991 1.011 1.032	MACH NUMBER .7010 .7298 .7618 .7954 .8147 .8318 .8475 .8686 .8918 .9084 .9226 .9379 .9553 .9731 .9915 1.0526

STRM- LINE NUMBER	RADIUS	AXIAL CODRD.	ABSOL. FLOW	STRM- LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.165 7.858 7.322 7.076 6.392 6.611 6.398 5.786 5.786 5.598 5.598 5.249 5.249 5.249 5.249 5.249 5.249 6.826	-4.889 -4.817 -4.762 -4.712 -4.671 -4.622 -4.622 -4.606 -4.611 -4.625 -4.678 -4.719 -4.769 -4.824 -4.880 -4.935	ANGLE 45.88 44.31 39.71 38.73 38.93 39.06 39.41 39.42 40.94 41.49 42.61 43.52	SLOPE 0.00 2.03 3.86 5.35 7.73 8.96 10.26 11.62 13.07 14.64 16.31 18.07 19.89 21.70 25.71 27.68	0.0000 .0153 .0171 .0118 .0048 0053 0065 0065 0053 00952 00952 0053 0053	. 0890 . 0891 . 0897 . 0904 . 0901 . 0894 . 0886 . 0886 . 0858 . 0858 . 0846 . 0832 . 0810 . 0797 . 0769	.1064 .1059 .1057 .1056 .1056 .1057 .1058 .1060 .1060 .1077 .1088 .1099 .1109 .1109 .1109
19	4.731	-4.979	43.78	29.40	1116	. 0757	.1121
20	4.670	-5.006	43.93	30.60	1331	. 0748	.1124
21	4.649	-5.016	43.98	31.04	1411	.0745	.1126
STRM- LINE NUMBER 123456789101123456789101123145678921	BLAT. ANI. 51 37. 40 37. 40 37. 40 37. 40 37. 40 36. 43 36. 22 37. 26 38. 71 40. 89 41. 89 42. 45 44. 98	BLEAN ANGLE 3.78 1.98 1.28 -2.63 -5.18 -2.63 -7.18 -11.62 -19.24 -21.68 -21.68 -21.68 -21.68 -23.68					

STATOR 1 STA NO. 1		(DN 9.0	ା ଉଡ	FLOW	60.78	ASPE NO V	CT RATIO ANES	1.40 31
STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.		TANG. VELOC.		TOTAL TEMP.	STATIC TEMP.
1	8.500	-2.220	697.2	697.2	0.0	697.2	670.28	629, 98
ž	8.238	-2.242	704.3	704.4	0.0	704.4		624.28
3	7.987	-2.266	718.9	719.2	0.0	719.2	658.73	615.83
4	7.752	-2.289	742.6	743.2	0.0	743.1	651.76	605.93
5	7.530	-2.312	749.9	750.8	0.0	750.8	647.56	600.77
<u>.</u>	7.318	-2.334	757.8	759.2	0.0	759.2	644.56	596.71
7	7.117	-2.356	766.5	768.5	Ø. Ø	768.4		593.81
8	6.927	-2.375	782.9	785.6	0.0	785.6	641.32	590.07
9	6.750	-2.393	799.2	802.8	0.0	802.8	639.95	586.43
10	6.584	-2.409	806.2	810.7	0.0	810.7	638.63	584.04
11	6.431	-2.424	813.9	819.5	0.0	819.4		581.61
12	6.288	-2.437	816.3	822.9	0.0	822.9	636.25	580.00
13	6.157	-2.450	817.1		0.0	825.0	635.40	578.87
14	6.039	-2.461	818.6	827.7	0.0	827.7		577.73
15	5.934	-2.472	822.3	832.7	0.0	832.7		576.35
16	5.843	-2.481	827.2		0.0	838.8	633.52	575.07
17	5.767	-2.490	831.6	844.4	0.0	844.4		574.05
18	5.708	-2.497	835.2		0.0	849.0		573.21
19	5.665	-2.503	837.9			852.5	632.96	572.58
20	5.639	-2.506	839.5			854.6		572.19
21	5.630		840.1			855.4		572.06
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.		TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	NUMBER
1	8.500	27.63	22.22	. 9881	1.0000	697.2		-5665
2	8.238		22.20	.9810	1.0000	704.4		. 5750
3	7.987	28.06	22.15	. 9736	1.0000	719.2	.591	.5910
4	7.752	28.54	22.09	. 9694	1.0000	743.1	.616	.6157
5	7.530	28.65	22.02	. 9664	1.0000	750.8		
€,	7.318	28.74	21.93	. 9658	1.0000	759.2	.634	.6338
7	7.117	28.82	21.82	.9673	1.0000	768.4	. 643	.6431
a	6.927	29.05	21.69	.9697	1.0000	785.6	.660	.6596
Э	6.750	29.28	21.55	.9703	1.0000	802.8	.676	.6761
1 Ø	6.584	29.27	21.39	.9708	1.0000	810.7	.684	-6842
11	6.431	29.26	21.22	. 9745	1.0000	819.4	.693	.6930
12	6.288	29.11	21.04	. 9730	1.0000	822.9	.697	.6969
13	6.157	28.91	20.86	.9679	1.0000	825.Ø	.699	.6993
14	6.039	28.74	20.67	.9633	1.0000	827.7	.702	.7023
15	5.934	28.63	20.50	.9607	1.0000	832.7	. 707	- 7074
1 E,	5.843	28.56	20.34	.9592	1.0000	838.8	.713	.7134
17	5.767	28.50	20.20	. 9577	1.0000	844.4	.719	.7187
18	5.708	28.46	20.09	. 9565	1.0000	849.0	.723	.7232
19	5.665	28.43	20.00	. 9556	1.0000	852.5	.727	.7266
20	5.639	28.41	19.95	. 9551	1.0000	854 . 6	.729	.7287
21	5.630	28.40	19.93	.9550	1.0000	855.4	.729	.7294

STATOR 1 STA NO. 1		ION 9.0	200	FLOW	60 . 78	ASPEC NO VA	CT RATIO ANES	1.40
STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-	D-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE	FACTOR
NUMBER			ANGLE	SLOPE	10112	111	MOL	LACION
1	8.500	-2.220	0.00	0.00	0.0000	.0952	. 0753	.4126
2	8.238		0.00	. 79	0075	. 0960	.0752	4245
3	7.987	-2.266	0.00	1.52	0136	. 2971	.0752	. 4242
4	7.752	-2.289	0.00	2.20	0192	.0984	.0752	. 4117
5	7.530	-2.312	0.00	2.86	0248	.0989	.0752	. 4095
6	7.318	-2.334	Ø. ØØ	3.49	0307	.0992	.0753	. 4092
7	7.117	-2.356	0.00	4.12	0375	.0992	. Ø754	. 4099
8	6.927	-2.375	Ø. 00	4.75	0454	. 0992	. 0755	. 4077
9	6.750	-2.393	Ø. ØØ	5.38	0543	.0992	.0756	. 4055
10	6.584	-2.409	ଡ. ଡଡ	6.02	0635	. 0989	. 0757	. 4055
11	6.431	-2.424	ଡ. ଡଡ	6.66	0734	. 0985	. 0759	.4028
12	6.288	-2.437	ଡ. ଡଡ	7.30	0834	. 0979	. 0761	. 4049
13	6.157	-2.450	0.00	7.91	0926	.0972	.0763	. 4097
14	6.039	-2.461	0.00	8.49		. 0966	. 0765	.4131
15	5.934	-2.472	0.00	9.04	1072	. 0960	. 0767	. 4147
16	5.843	-2.481	Ø. ØØ	9.53		. 0955	. 0769	.4162
17 18	5.767	-2.490	Ø. ØØ	9.97	1178	. 0950	.0769	-4186
19	5.708	-2.497 -2.503	Ø. ØØ	10.34		. 0946	.0769	. 4220
20	5.665 5.639	-2.506 -2.506	0.00	10.62		. 0943	. 0769	. 4255
21	5.630	-2.507	ଡ. ଡଡ ଡ. ଡଡ	10.79	1259	. 0941	.0769	.4281
L _ 1	J. 032	-E.Ju/	עו. עועו	10.85	1264	. 0941	. 0769	.4291
STRM-	BLADE	BLADE		INCID-	DEVIA-	L.OSS	ADIAB.	חמו עד
LINE	SECT.	LEAN		ENCE	TION	COEF.	EFFIC.	POLYT. EFFIC.
NUMBER	ANGLE	ANGLE		LIVUL	1 2 014	COEF.	EFFIG.	CLLIC.
1	-8.96	02		4.324	8.960	.0426	67.54	70.26
2	-8.21	02		5.384	8.209	.0636	70.43	72.94
3	-7.65	01		4.635	7.647	.0828	75.13	77.27
4	-7.24	. 00		2.309	7.240	.0896	81.33	82.98
5	-7.00	. ଉପ		1.504	7.003	. 0950	84.58	85.90
€	-6.80	. ଅପ		1.669	6.800	.0937	87.00	88.16
7	-6.67	. ହାହ		2.534	6.671	.0872	88.61	89.63
8	-6.56	ପଡ		3.096	6.562	.0779	90.90	91.73
Э	-6.47	ହାହା		2.777	6.474	.0736	93.05	93.69
10	-6.40	QQ		2.692	6.401	.0705	94.04	94.58
1 1	-6.37	Ø1		2.647	6.369	.0602	94.99	95.45
12	-6.34	01		2.419	6.339	.0623	95.11	95.56
1.3	-6.34	Ø1		2, 232	6.339	.0723	94.78	95.25
14	-6.35	01		1.742	6.345	. 0807	94.46	94.96
15	-6.35	01		1.176	6.346	.0842	94.42	94.92
16	-6.38	02		.719	6.380	. 0853	94.41	94.90
17	-6.46	02		.352	6.459	. Ø861	94.30	94.80
1 &	-6.52	Ø3		. 060	6.517	.0863	94. 21	94.72
19	-6.56	Ø4		566	6.556	.0862	94.14	94.66
20 21	-6.58	Q14		968	6.578	. 0859	94.10	94.62
<i>Ē</i> :1	-6.59	Ø4		-1.105	6.585	. 0858	94.09	94.61

STRM-, LINE	RADIUS	AXIAL COORD.	AXIAL VELDC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELDC.	TOTAL TEMP.	STATIC TEMP.
NUMBER 1	8.500	-1.650	679.4	679.4	0.0	679.4	670.28	632.03
ė	8.245	-1.650	685.7	685.7	0.0		665.43	626.44
3	8.001	-1.650	699.1	699.2	0.0	699.2	658.73	618.17
4	7.773	-1.650	721.8	722.1	0.0		651.76	608.49
5	7.558	-1.650	727.7	728.2	0.0		647.56	603.55
6	7.354	-1.650	734.2	734.9			644.56	599.72
7	7.160	-1.650	741.8	742.7	0.0	742.7	642.83	597.04
ė	6.977	-1.650	757.6	758.9	0.0	758.9	641.32	593.50
9	6.807	-1.650	773.7	775.2	0.0	775.2	639.95	590.05
10	6.650	-1.650	780.6	782.3	0.0	782.3	638.63	587.81
11	6.503	-1.650	788.6	790.5	0.0	790.5	637.38	585.48
12	6.369	-1.650	791.7	793.8	Ø. Ø	793.8	636.25	583.92
13	6.245	-1.650	793.9	796.2	0.0		635.40	582.75
14	6.134	-1.650	797 . 8	800.1	0.0		634.63	581.45
15	6.035	-1.650	805.0	807.4	0.0		633.95	579.80
16	5.951	-1.650	814.2	816.6	0.0		633.52	578.13
1.7	5.882	-1.650	823.2	825.7	0.0		633.28	576.65
18	5.827	-1.650	831.4	833.5	0.0		633.10	575.33
19	5.788	-1.650	838.0	840.3	Ø. Ø		632.96	574.29
20	5.765	-1.650	842.2	844.5	0.0		632.88	573.62
21	5.757	-1.650	843.7	846.0	0.0	846.0	632.85	573.39
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	
1	8.500	27.63	22.47	1.8800	1.2922	679.4		. 5511
2	8.245	27.77	22.47	1.8902	1.2829	685.7		. 5587
3	8.001	28.06	22.45	1.9099	1.2699	699.2		
4	7.773	28.54	22.42	1.9421	1.2565	722.1		.5970
5	7.558	28.65	22.38	1.9496	1.2484	728.2		.6045
6	7.354	28.74	22.32	1.9559	1.2426			.6120
7	7.160	28.82	22.24	1.9613	1.2393			.6199
8	6.977	29.05	22.14	1.9773	1.2364			.6353
9	6.807	29.28	22.02		1.2337			.6509
10	6.650	29.27	21.88	1.9918	1.2312	782.3	.658	.6580
1.1	6.503	29.26	21.72	1.9912	1.2288	790.5	.666	.6663
12	6.369	29.11	21.54	1.9810	1.2266	793.8	.670	.6700
13	6. 245	28.91	21.35	1.9678	1.2250	796.2	. 673	.6727
14	6.134	28.74	21.14	1.9558	1.2235	800.1	. 677	.6767
15	6.035	28.63	20.93	1.9483	1.2222	807.4	.684	.6839
16	5.951	28.56	20.72	1.9437	1.2214	816.6	.693	.6926
1.7	5.882	28.50	20.52	1.9399	1.2209	825.7	.701	.7012
18	5.827	28.46	20.35	1.9369	1.2205	833.8	. 709	.7090
19	5.788	28.43	20.21	1.9347	1.2203	840.3	.715	.7151
20	5.765	28.41	20.13	1.9334	1.2201	844.5	.719	.7191
21	5.757	28.40	20.10	1.9329	1.2201	846.0	.721	.7205

FREE STATION 10.000 IS INDEX 14

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.650	0.00	ଡ.ଡଡ	0.0000	. 0960	. 0340
2	8.245	-1.650	0.00	.62	ØØ4Ø	.0968	.0340
3	8.001	-1.650	0.00	1.18	0086	. 0980	.0340
4	7.773	-1.650	0.00	1.69	0151	. Ø995	. 0340
5	7.558	-1.650	Ø. ØØ	2.14	0227	. 1001	. 0340
6	7. 354	-1.650	Ø. ØØ	2.55	0305	. 1004	. 0340
7	7.160	-1.650	0.00	2.92	0390	.1005	. 0340
8	6.977	-1.650	0.00	3.26	0488	. 1007	. 0340
9	6.807	-1.650	Ø. ØØ	3.55	0603	.1007	.0340
10	6.650	-1.650	Ø. ØØ	3.80	0735	.1005	.0340
1.1	6.503	-1.650	ଡ. ଡଡ	4.02	0881	.1001	.0340
12	6.369	-1.650	0.00	4.19	1044	. 0996	.0340
13	6.245	-1.650	0.00	4.32	1226	. 0989	. 0340
14	6.134	-1.650	0.00	4.40	1426	.0982	.0340
15	6.035	-1.650	ଡ. ଡଡ଼	4.43	1640	. Ø974	. 0340
16	5.951	-1.650	Ø. ØØ	4.43	1860	.0967	.0340
17	5.882	-1.650	ଡ. ଡଡ	4.39	2072	. 0961	. 0340
18	5.827	-1.650	Ø. ØØ	4.34	2260	. 0955	.0340
19	5.788	-1.650	ଡ. ଡଡ	4.29	2410	. 0950	.0340
20	5.765	-1.650	ଡ.ଡଡ	4.25	2506	. 0947	.0340
21	5. 757	-1.650	ଡ. ଡଡ	4.24	2539	. 0946	.0340

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELDC.		ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.248 8.007 7.781 7.568 7.365 7.172 6.990 6.821 6.664 6.382 6.258 6.145 6.045	-1.350 -1.350 -1.350 -1.350 -1.350 -1.350 -1.350 -1.350 -1.350 -1.350 -1.350 -1.350	698.5 704.5 717.3 739.0 744.1 749.5 755.7 769.7 783.4 787.3 791.6 789.9 786.2 782.8 781.6	698.5 704.5 717.4 739.2 744.4 750.0 756.2 770.3 784.0 787.9 792.2 786.7 783.2 781.8	0.000000000000000000000000000000000000	698.5 704.5 717.4 739.2 744.4 750.0 756.2 770.3 784.1 792.2 790.5 786.7 783.2 781.9	670.28 655.43 658.73 651.76 647.56 644.56 642.83 641.32 639.95 638.63 637.38 636.25 635.40 634.63 633.95	629.83 624.27 616.04 606.41 601.57 597.87 595.36 592.05 588.90 587.07 585.26 584.00 583.69 583.17
16 17 18 19 20	5.958 5.887 5.830 5.790 5.765	-1.350 -1.350 -1.350 -1.350 -1.350	781.5 781.0 780.0 779.0 778.2	781.6 781.0 780.0 779.0 778.2	0.0 0.0 0.0 0.0 0.0	781.6 781.0 780.0 779.0 778.2	633.52 633.28 633.10 632.96 632.88	582.78 582.62 582.55 582.55 582.57
21 STRM- LINE NUMBER	5.757 RADIUS	-1.350 TOTAL PRESS.	777.9 STATIC PRESS.	777.9 TOTAL PRESS. RATIO	Ø.Ø TOTAL TEMP. RATIO	777.9 ABSOL. VELOC.	632.85 ABSOL. MACH	582.59 ABSOL. MACH
1 2 3 4 5 6 7 8	8.500 8.248 8.007 7.781 7.568 7.365 7.172 6.990 6.821 6.664	27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28	22.20 22.19 22.18 22.16 22.12 22.08 22.02 21.95 21.87 21.78	1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918	1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364	698.5 704.5 717.4 739.2 744.4 750.0 756.2 770.3 784.1	NUMBER .568 .575 .589 .619 .626 .632 .646	NUMBER .5677 .5751 .5895 .6122 .6190 .6255 .6321 .6456
11 12 13 14 15 16 17 18 19 20 21	6.517 6.382 6.258 6.145 6.045 5.958 5.887 5.830 5.790 5.757	29.26 29.11 28.91 28.63 28.56 28.56 28.46 28.46 28.43 28.41	21.69 21.50 21.51 21.43 21.36 21.31 21.28 21.25	1.9912 1.9810 1.9678 1.9558 1.9483 1.9437 1.9399 1.9369 1.9334 1.9334	1.2288 1.2266 1.2250 1.2235 1.2222 1.2214 1.2209 1.2205 1.2203 1.2201	788.0 792.2 790.5 786.7 783.2 781.9 781.6 781.0 780.0 779.0 778.2 777.9	.663 .668 .667 .664 .660 .660 .659 .658 .658	.6638 .6678 .6669 .6639 .6611 .6603 .6599 .6591 .6582 .6575

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STRM-	RADIUS	AXIAL	ABSOL.	STRM~	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.350	Ø. ØØ	Ø. ØØ	Ø. ØØØØ	.0951	.0410
2	8.248	-1.350	Ø. ØØ	. 53	0043	. 0960	. 0410
3	8.007	-1.350	0.00	1.00	0088	.0972	.0410
4	7.781	~1.350	0.00	1.37	0134	. 0986	.0410
5	7.568	-1.350	0.00	1.67	0182	.0993	.0410
6	7.365	-1.350	Ø. ØØ	1.92	0234	.0997	.0410
7	7.172	-1.350	0.00	2.11	0289	. Ø998	.0410
8	6.990	-1.350	0.00	2.24	0345	- 1001	.0410
Э	6.821	-1.350	0.00	2.30	0399	.1002	.0410
10	6.664	-1.350	Ø. ØØ	2.30	0450	.1002	.0410
11	6.517	-1.350	0.00	2.23	0493	. 1000	.0410
12	6.382	-1.350	0.00	2.11	0524	. 0998	.0410
13	6.258	-1.350	ଡ.ଡଡ	1.92	0535	. 0994	.0410
14	6.145	-1.350	Ø. ØØ	1.67	0520	. 0991	.0410
15	6.045	-1.350	Ø. ØØ	1.37	0474	.0989	.0410
1 €,	5.958	-1.350	Ø. ØØ	1.05	0398	.0987	.0410
17	5.887	-1.350	0.00	.73	0299	. 0986	.0410
1 B	5.830	-1.350	Ø. ØØ	. 44	0192	. 0985	.0410
19	5.790	-1.350	Ø.00	.20	0094	. 0985	.0410
20	5.765	-1.350	ወ. ወወ	. 05	0025	.0984	. 0410
21	5.757	-1.350	0.00	Ø. ØØ	Ø. ØØØØ	.0984	.0410

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELDC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-1.050	717.3	717.3	0.0	717.3	670.28	627.62
ā	8.250	-1.050	722.9	722.9	0.0	722.9	665.43	622.09
3	8.012	-1.050	734.8	734.9	0.0	734.9	658.73	613.93
4	7.787	-1.050	755.1	755.3	0.0	755.3	651.76	604.42
5	7.576	-1.050	759.0	759.3	0.0	759.3	647.56	599.71
6	7.374	-1.050	763.1	763.4	0.0	763.4	644.56	596.18
7	7.182	-1.050	767.5	767.8	0.0	767.8	642.83	593.88
8	7.001	-1.050	779.3	779.7	0.0	779.7	641.32	590.84
9	6.832	-1.050	790.5	790.9	0.0	790.9	639.95	588.01
10	6.674	-1.050	791.7	792.1	0.0	792.1	638.63	586.53
1.1	6.527	-1.050	793.0	793.3	0.0	793.3	637.38	585.11
12	6.391	-1.050	788.2	788.4	0.0	788.4	636.25	584.63
13	5.265	-1.050	781.2	781.4	0.0	781.4	635.40	584.69
14	6.151	-1.050	774.6	774.7	0.0	774.7	634.63	584.78
15	6. 050	-1.050	770.6	770.7	Ø. Ø	770.7	633.95	584.62
16	5.962	-1.050	768.2	768.3	0.0	768.3	633.52	584.50
1.7	5.889	-1.050	766.1	766.1	0.0	766.1	633.28	584.53
18	5.832	-1.050	764.2	764.2	0.0	764.2	633.10	584.58
1/9	5.790	-1.050	762.8	762.B	Ø. Ø	762.8	632.96	584.63
20	5.765	-1.050	761.9	761.9	Ø. Ø	761.9	632.88	584.67
21	5.757	-1.050	761.6	761.6	Ø. Ø	761.6	632.85	584.68
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL. MACH
	RADIUS							
LINE NUMBER 1	8.500			PRESS.	TEMP.		MACH	MACH
LINE NUMBER 1 2	8.500 8.250	PRESS. 27.63 27.77	PRESS. 21.93 21.92	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1 2 3	8.500 8.250 8.012	PRESS. 27.63 27.77 28.06	PRESS. 21.93 21.92 21.92	PRESS. RATIO 1.8800 1.8902 1.9099	TEMP. RATIO 1.2922 1.2829 1.2699	VELOC. 717.3 722.9 734.9	MACH NUMBER .584 .591 .605	MACH NUMBER . 5840 . 5911 . 6049
LINE NUMBER 1 2 3 4	8.500 8.250 8.012 7.787	PRESS. 27.63 27.77 28.06 28.54	PRESS. 21.93 21.92 21.92 21.90	PRESS. RATIO 1.8800 1.8902 1.9099	TEMP. RATIO 1.2922 1.2829	717.3 722.9 734.9 755.3	MACH NUMBER .584 .591 .605 .627	MACH NUMBER . 5840 . 5911 . 6049 . 6265
LINE NUMBER 1 2 3 4 5	8.500 8.250 8.012 7.787 7.576	PRESS. 27.63 27.77 28.06 28.54 28.65	PRESS. 21.93 21.92 21.92 21.90 21.88	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484	717.3 722.9 734.9 755.3 759.3	MACH NUMBER .584 .591 .605 .627 .632	MACH NUMBER .5840 .5911 .6049 .6265 .6323
LINE NUMBER 1 2 3 4 5 6	8.500 8.250 8.012 7.787 7.576 7.374	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74	PRESS. 21.93 21.92 21.90 21.88 21.86	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4	MACH NUMBER .584 .591 .605 .627 .632 .638	MACH NUMBER .5840 .5911 .6049 .6265 .6323
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.250 8.012 7.787 7.576 7.374 7.182	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82	PRESS. 21.93 21.92 21.92 21.90 21.88 21.86 21.83	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8	MACH NUMBER .584 .591 .605 .627 .632 .638	MACH NUMBER .5840 .5911 .6049 .6265 .6323 .6376
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05	PRESS. 21.93 21.92 21.92 21.90 21.88 21.86 21.83 21.79	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7	MACH NUMBER .584 .591 .605 .627 .632 .638 .643	MACH NUMBER .5840 .5911 .6049 .6265 .6323 .6376 .6426
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05	PRESS. 21.93 21.92 21.90 21.88 21.86 21.83 21.79 21.76	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9	MACH NUMBER .584 .591 .605 .627 .632 .638 .643 .654	MACH NUMBER .5840 .5911 .6049 .6265 .6323 .6323 .6426 .6542
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28	PRESS. 21.93 21.92 21.90 21.88 21.86 21.83 21.79 21.76 21.71	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1	MACH NUMBER .584 .591 .605 .627 .632 .638 .654 .665	MACH NUMBER .5840 .5911 .6049 .6265 .6323 .6376 .6426 .6542 .6652
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.25 29.26	PRESS. 21.93 21.92 21.90 21.88 21.86 21.83 21.79 21.76 21.71	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 7790.9 792.1 793.3	MACH NUMBER .584 .591 .605 .627 .632 .638 .643 .654 .665	MACH NUMBER .5840 .5911 .6049 .6265 .6323 .6376 .6426 .6542 .6652 .6670
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.26 29.11	PRESS. 21.93 21.92 21.90 21.88 21.86 21.83 21.79 21.76 21.71 21.67 21.63	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9912 1.9912	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4	MACH NUMBER .584 .591 .605 .627 .632 .638 .643 .654 .665 .667	MACH NUMBER .5840 .5911 .6049 .6265 .6326 .6376 .6426 .6542 .6652 .6659 .6689
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.25 29.26 29.11 28.91	PRESS. 21.93 21.92 21.90 21.88 21.86 21.79 21.76 21.76 21.67 21.63 21.60	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9559 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 781.4	MACH NUMBER .584 .591 .605 .627 .632 .638 .643 .654 .665 .667 .665	MACH NUMBER .5840 .5911 .6049 .6265 .6376 .6426 .6542 .6650 .6650
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265 6.151	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.25 29.26 29.26 29.11 28.91	PRESS. 21.93 21.92 21.90 21.88 21.86 21.79 21.76 21.71 21.67 21.63 21.57	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9958	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2235	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 793.3 788.4 781.4 774.7	MACH NUMBER .584 .591 .605 .627 .638 .634 .654 .665 .667 .665 .665 .659	MACH NUMBER .5840 .5911 .6049 .6265 .6323 .6376 .6428 .6548 .6650 .6650 .6650 .6534
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265 6.151 6.050	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.26 29.26 29.26 29.11 28.91 28.74 28.63	PRESS. 21.93 21.92 21.90 21.88 21.86 21.79 21.76 21.71 21.67 21.67 21.57	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9678 1.9558 1.9483	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2235 1.2222	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 781.4 774.7 770.7	MACH NUMBER .584 .591 .605 .627 .638 .654 .665 .665 .665 .659 .653	MACH NUMBER .5840 .5911 .6045 .6325 .6326 .6542 .6650 .6650 .6650 .6534 .6500
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265 6.151 6.050 5.962	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.25 29.26 29.27 29.26 29.11 28.74 28.63 28.56	PRESS. 21.93 21.92 21.90 21.88 21.86 21.83 21.79 21.76 21.71 21.67 21.67 21.55 21.53	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9958 1.9483 1.9483 1.9437	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2235 1.2222 1.2214	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 774.7 770.7 768.3	MACH NUMBER .584 .591 .605 .627 .632 .634 .654 .665 .665 .659 .659 .659 .650 .648	MACH NUMBER .5840 .5911 .6045 .6237 .6337 .64542 .66542 .66590 .66590 .65500 .6481
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.050 5.962 5.889	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.25 29.26 29.27 29.26 29.11 28.91 28.63 28.56 28.50	PRESS. 21.93 21.92 21.90 21.88 21.86 21.87 21.76 21.71 21.67 21.55 21.55 21.53 21.52	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9918 1.9918 1.9918 1.9918 1.9958 1.9483 1.9483 1.9437 1.9399	TEMP. RATIO 1.2922 1.2629 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222 1.2214 1.2209	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 774.7 770.7 768.3 766.1	MACH NUMBER .591 .605 .627 .632 .633 .655 .665 .665 .655 .655 .659 .655 .658	MACH NUMBER .5840 .5911 .6045 .62376 .63376 .65550 .666789 .6655300 .6655300 .655481 .6462
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265 6.151 6.962 5.889 5.832	PRESS. 27.63 27.77 28.06 28.54 28.54 28.65 28.74 28.82 29.27 29.26 29.11 28.74 28.63 28.50 28.46	PRESS. 21.93 21.92 21.90 21.86 21.83 21.79 21.76 21.76 21.57 21.57 21.55 21.52 21.52	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9456 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9918 1.9958 1.9437 1.9437 1.9399 1.9369	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222 1.2209 1.2205	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 774.7 7768.3 766.1 764.2	MACH NUMBER .584 .591 .605 .632 .633 .653 .655 .665 .655 .655 .659 .659 .654 .646	MACH NUMBER .5840 .5911 .6049 .6265 .63276 .64548 .66570 .666590 .6534 .6534 .65462 .6446
LINE NUMBER 1 23456789 10112314 15161789	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265 6.151 6.962 5.889 5.832 5.790	PRESS. 27.63 27.77 28.06 28.54 28.54 28.65 28.74 28.85 29.27 29.26 29.11 28.74 28.63 28.56 28.46 28.43	PRESS. 21.93 21.92 21.90 21.88 21.86 21.79 21.76 21.76 21.57 21.55 21.52 21.52	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9918 1.9918 1.9918 1.9918 1.9958 1.9483 1.9483 1.9483 1.9483 1.9483 1.9483 1.9483 1.9369 1.9347	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2486 1.2337 1.2312 1.2288 1.2266 1.2235 1.2282 1.2209 1.2209 1.2203	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 774.7 7768.3 766.1 764.2 762.8	MACH NUMBER .584 .591 .6027 .6328 .643 .6534 .6657 .6659 .6559 .6559 .6559 .6445 .645	MACH NUMB40 .5911 .6045 .62376 .62376 .64548 .66570 .66530 .66530 .66530 .6446 .64434
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.250 8.012 7.787 7.576 7.374 7.182 7.001 6.832 6.674 6.527 6.391 6.265 6.151 6.962 5.889 5.832	PRESS. 27.63 27.77 28.06 28.54 28.54 28.65 28.74 28.82 29.27 29.26 29.11 28.74 28.63 28.50 28.46	PRESS. 21.93 21.92 21.90 21.86 21.83 21.79 21.76 21.76 21.57 21.57 21.55 21.52 21.52	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9456 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9918 1.9958 1.9437 1.9437 1.9399 1.9369	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222 1.2209 1.2205	VELOC. 717.3 722.9 734.9 755.3 759.3 763.4 767.8 779.7 790.9 792.1 793.3 788.4 774.7 7768.3 766.1 764.2	MACH NUMBER .584 .591 .605 .632 .633 .653 .655 .665 .655 .655 .659 .659 .654 .646	MACH NUMBER .5840 .5911 .6049 .6265 .63276 .64548 .66570 .666590 .6534 .6534 .65462 .6446

FREE STATION 12.000 IS INDEX 16

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		CODRD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.050	Ø. ØØ	ଡ ଡଡ	ଡ. ଉପଡ଼ଡ	.0943	. 0480
2	8.250	-1.050	Ø. ØØ	. 47	0027	.0951	.0480
3	8.012	-1.050	Ø. ØØ	.88	0053	. 0964	. 0480
4	7.787	-1.050	Ø. ØØ	1.19	0078	. Ø978	. 0480
5	7.576	-1.050	ଡ. ଡଡ	1.43	0101	. 0985	. 0480
6	7.374	-1.050	ହା. ହହ	1.61	0126	. 0990	. 0480
7	7.182	-1.050	ଡ. ହହ	1.74	0150	.0992	. 0480
8	7.001	-1.050	ଡ. ଡଡ	1.80	0172	. 0996	. 0480
9	6.832	-1.050	ଡ. ଡଡ	1.80	0191	. Ø999	. 0480
10	6.674	~1.050	ଡ. ହଡ	1.74	0205	.0999	. 0480
11	6.527	-1.050	Ø. ØØ	1.63	0212	. 1000	. 0480
12	6.391	-1.050	ଡ.ଡଡ	1.48	0211	. 0999	. 0480
13	6.265	-1.050	ଡ. ଡଡ	1.29	0201	. 0997	. 0480
14	6.151	-1.050	Ø. ØØ	1.07	0180	. 0996	.0480
15	6.050	-1.050	0.00	. 84	0150	. 0995	. 0480
16	5.962	-1.050	0.00	.61	0115	. 0994	.0480
17	5.889	-1.050	ଡ. ଡଡ	. 40	0079	. 0994	. 0480
18	5.832	-1.050	Ø. ØØ	.23	0046	. 0994	. 0480
19	5.790	-1.050	0.00	. 11	0021	.0993	. 0480
20	5.765	-1.050	0.00	.03	0005	.0993	.0480
21	5.757	-1.050	Ø. ØØ	0.00	ଡ. ଡଡଡଡ	.0993	. 0480

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELOC.		STATIC TEMP.
1	8.500	750	735.8	735.8	0.0	735.8	670.28	625.40
5	8.253	750	740.9	740.9	0.0	740.9	665.43	619.91
3	8.016	750	751.7	751.8	0.0	751.8	658.73	611.84
4	7.793	750	770.5	770.7	0.0	770.7	651.76	602.47
5	7.583	750	773.1	773.3	0.0	773.3	647.56	597.92
6	7.382	750	775.5	775.8	0.0	775.8	644.56	594.60
7	7.190	750	778.0	778.4	0.0	778.4	642.83	592.53
å	7.009	750	787.6	787.9	0.0	787.9	641.32	589.77
9	6.840	750	796.5	796.B	0.0	796.E	639.95	587.23
10	6.682	750	795.3	795.6	0.0	795.6	638.63	586.07
11	6.534	750	794.2	794.4	0.0	794.4	637.38	584.96
12	6.397	750	787.0	787.2	0.0	787.2	636.25	584.78
13	6.271	750	777.9	778.1	0.0	778.1	635.40	585.12
14	6.156	750	769.6	769.7	0.0	769.7	634.63	585.43
15	6.053	750	764.2	764.2	0.0	764.2	633.95	585.44
16	5.965	750	760.8	760.9	0.0	760.9	633.52	585.44
17	5.891	750	758.1	758.1	0.0	758.1	633.28	585.54
18	5.833	750	755.9	755.9	0.0	755.9	633.10	585.63
19	5.791	750	754.4	754.4	Ø. Ø	754.4	632.96	585.69
20	5.765	750	753.4	753.4	Ø. Ø	753.4	632.88	585.73
21	5.757	750	753.1	753.1	0.0	753.1	632.85	585.74
стом.	DODING	TOTAL	CTATIO	TOTAL	TOTAL	Anco	Open	Apeni
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.		ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	ABSOL. VELOC.	MACH	MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 27.63	PRESS. 21.65	PRESS. RATIO 1.8800	TEMP. RATIO 1.2922	VELOC. 735.8	MACH NUMBER . 600	MACH NUMBER .6001
LINE NUMBER 1 2	8.500 8.253	PRESS. 27.63 27.77	PRESS. 21.65 21.65	PRESS. RATIO 1.8800 1.8902	TEMP. RATIO 1.2922 1.2829	VELOC. 735.8 740.9	MACH NUMBER .600 .607	MACH NUMBER .6001 .6069
LINE NUMBER 1 2 3	8.500 8.253 8.016	PRESS. 27.63 27.77 28.06	PRESS. 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099	TEMP. RATIO 1.2922 1.2829 1.2699	735.8 740.9 751.8	MACH NUMBER .600 .607 .620	MACH NUMBER .6001 .6069 .6199
LINE NUMBER 1 2 3 4	8.500 8.253 8.016 7.793	PRESS. 27.63 27.77 28.06 28.54	PRESS. 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565	735.8 740.9 751.8 770.7	MACH NUMBER . 600 . 607 . 620 . 640	MACH NUMBER .6001 .6069 .6199 .6403
LINE NUMBER 1 2 3 4 5	8.500 8.253 8.016 7.793 7.583	PRESS. 27.63 27.77 28.06 28.54 28.65	PRESS. 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484	735.8 740.9 751.8 770.7 773.3	MACH NUMBER . 600 . 607 . 620 . 640 . 645	MACH NUMBER .6001 .6069 .6199 .6403
LINE NUMBER 1 2 3 4 5 6	8.500 8.253 8.016 7.793 7.583 7.382	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74	PRESS. 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426	735.8 740.9 751.8 770.7 773.3 775.8	MACH NUMBER .600 .607 .620 .640 .645	MACH NUMBER .6001 .6069 .6199 .6403 .6450
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.253 8.016 7.793 7.583 7.382 7.190	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393	735.8 740.9 751.8 770.7 773.3 775.8 778.4	MACH NUMBER .600 .607 .620 .640 .645 .649	MACH NUMBER .6001 .6069 .6199 .6403 .6450 .6488
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.253 8.016 7.793 7.583 7.382 7.190 7.009	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9559 1.9559 1.9613 1.9773	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364	735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9	MACH NUMBER .600 .607 .620 .640 .645 .649 .652	MACH NUMBER .6001 .6069 .6199 .6403 .6450 .6488 .6521
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.253 8.016 7.793 7.583 7.382 7.190 7.009 6.840	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337	735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8	MACH NUMBER .600 .607 .620 .640 .645 .649 .652 .662	MACH NUMBER .6001 .6069 .6199 .6403 .6450 .6488 .6521 .6617
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.253 8.016 7.793 7.583 7.382 7.190 7.009 6.840 6.682	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.27	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312	735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6	MACH NUMBER .600 .607 .620 .645 .645 .652 .652 .671	MACH NUMBER .6001 .6069 .6199 .6403 .6450 .6488 .6521 .6617 .6702
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.253 8.016 7.793 7.583 7.382 7.190 7.009 6.840 6.682 6.534	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.27 29.26	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288	735.8 740.9 751.8 770.7 773.3 775.8 775.8 776.8 796.8 796.6 794.4	MACH NUMBER .600 .607 .620 .640 .645 .649 .652 .662 .671 .670	MACH NUMBER .6001 .6069 .6199 .6403 .6450 .6488 .6521 .6617 .6706 .6702
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.253 8.016 7.793 7.583 7.382 7.190 7.009 6.840 6.534 6.534	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.27 29.26 29.11	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9559 1.9559 1.9613 1.9773 1.9924 1.9918 1.9912	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266	735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6 794.4 787.2	MACH NUMBER .600 .607 .620 .640 .645 .649 .652 .662 .671 .670 .664	MACH NUMBER .6001 .6009 .6199 .6403 .6450 .6488 .6521 .6617 .6706 .6699 .6639
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.253 8.016 7.793 7.583 7.382 7.190 7.009 6.840 6.534 6.534 6.397 6.271	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.25 29.26 29.26 29.11 28.91	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9810 1.9678	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6 794.4 787.2 778.1	MACH NUMBER .600 .607 .620 .640 .645 .652 .652 .671 .670 .664 .656	MACH NUMBER .6069 .6199 .6490 .6450 .6450 .6521 .6617 .6702 .6699 .6639
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.253 8.016 7.793 7.583 7.382 7.190 6.840 6.682 6.534 6.397 6.271 6.156	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.27 29.26 29.21 29.21 28.74	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2364 1.2337 1.2366 1.2266 1.2250 1.2235	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 794.4 787.2 778.1 769.7	MACH NUMBER .600 .607 .620 .640 .645 .652 .671 .670 .664 .656	MACH NUMBER .6069 .6199 .6493 .6450 .6488 .6521 .6617 .6702 .6639 .6560 .6488
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.253 8.016 7.793 7.583 7.382 7.190 6.840 6.534 6.397 6.271 6.271 6.253	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.27 29.26 29.11 28.91 28.74 28.63	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9678 1.9558 1.9483	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6 794.4 787.2 778.1 769.7 764.2	MACH NUMBER .607 .620 .645 .645 .652 .670 .670 .656 .656 .649	MACH NUMBER .6069 .6199 .6493 .6493 .64521 .6521 .6693 .6599 .6539 .65488 .6442
LINE NUMBER 1 23456789 10112314 15	8.500 8.253 8.016 7.793 7.583 7.382 7.190 6.840 6.682 6.534 6.397 6.271 6.156	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.05 29.28 29.27 29.26 29.21 29.21 28.74	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9918	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2235 1.2222	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 794.4 787.2 778.1 769.7	MACH NUMBER .600 .607 .620 .640 .645 .652 .671 .670 .664 .656	MACH NUMBER .6069 .6199 .6493 .6450 .6488 .6521 .6617 .6702 .6639 .6560 .6488
LINE NUMBER 1 23456789 1011234516	8.500 8.253 8.016 7.793 7.583 7.382 7.190 6.840 6.534 6.397 6.271 6.053 5.965	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.28 29.28 29.26 29.11 28.74 28.63 28.56 28.50	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9678 1.9583 1.9483 1.9437	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222 1.2214	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6 794.4 787.2 769.7 764.2 760.9 758.1	MACH NUMBER .607 .620 .645 .645 .652 .657 .657 .656 .654 .654 .654 .654 .654 .654	MACH NUMBER .6069 .6193 .6493 .64521 .6488 .6521 .66709 .6639 .6568 .654413 .639
LINE NUMBER 1 234567890 112345678901123456789011234567	8.500 8.253 8.016 7.793 7.583 7.382 7.190 6.840 6.634 6.271 6.271 6.965 5.965	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.26 29.26 29.21 28.74 28.56 28.50 28.46	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8909 1.9421 1.9496 1.9559 1.9559 1.9924 1.9918 1.9918 1.9918 1.9918 1.9483 1.9483 1.9483 1.9437	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2393 1.2364 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222 1.2214 1.2209	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6 794.4 787.2 769.7 764.2 760.9 758.1 755.9	MACH NUMBER .607 .620 .645 .645 .652 .657 .6672 .6672 .6644 .644	MACH NUMBER .6069 .6199 .6493 .6493 .6488 .6521 .6617 .6709 .6639 .6639 .65488 .6442
LINE NUMBER 1 23456789 10112314 1516718	8.500 8.253 8.016 7.793 7.583 7.382 7.190 6.634 6.534 6.534 6.537 6.271 6.965 5.965 5.833	PRESS. 27.63 27.77 28.06 28.54 28.65 28.74 28.82 29.28 29.28 29.26 29.11 28.74 28.63 28.56 28.50	PRESS. 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65 21.65	PRESS. RATIO 1.8800 1.8902 1.9099 1.9421 1.9496 1.9559 1.9613 1.9773 1.9924 1.9918 1.9918 1.9918 1.9918 1.9437 1.9483 1.9483 1.9483 1.9483 1.9399 1.9369	TEMP. RATIO 1.2922 1.2829 1.2699 1.2565 1.2484 1.2426 1.2337 1.2312 1.2288 1.2266 1.2250 1.2222 1.2214 1.2209 1.2205	VELOC. 735.8 740.9 751.8 770.7 773.3 775.8 778.4 787.9 796.8 795.6 794.4 787.2 769.7 764.2 760.9 758.1	MACH NUMBER .607 .620 .640 .645 .649 .652 .670 .664 .656 .649 .644 .639 .637	MACH NUMBER .6069 .6193 .6458 .64521 .6648 .65702 .66639 .6568 .65482 .64423 .6390 .6371

FREE STATION 13.000 IS INDEX 17

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	750	Ø. ØØ	Ø. ØØ	0.	.0935	. 0546
2	8.253	750	Ø. ØØ	. 44	Ø. ØØØØ	. 0943	. 0546
3	8.016	750	Ø. ØØ	.83	Ø. ØØØØ	. 0955	. Ø546
4	7.793	750	Ø. ØØ	1.12	Ø. ØØØØ	. 0970	.0546
5	7.583	750	0.00	1.34	ଡ. ହଉଉଡ	. Ø978	. Ø546
6	7.382	750	ଡ. ଡଡ	1.50	Ø. ØØØØ	. 0983	. 0546
7	7.190	750	ଡ. ଡଡ	1.61	0.0000	. 0986	. 0546
8	7.009	750	Ø. ØØ	1.65	Ø. ØØØØ	. 0991	.0546
9	6.840	750	0.00	1.63	0.0000	.0995	. 0546
1Ø	6.682	750	0.00	1.56	Ø. ØØØØ	. 0997	.0546
1.1	6.534	750	ଡ. ଡଡ	1.45	ଡ. ଉଉଡଡ	. 0999	. 0546
12	6.397	750	Ø. ØØ	1.29	0.0000	. 0599	.0546
13	6.271	750	0.00	1.11	0.0000	. 0999	. 0546
14	6.156	750	0.00	. 91	0.0000	. 0998	.0546
15	6.053	750	Ø. ØØ	.71	0.0000	. 0998	. 0546
16	5.965	750	0.00	.51	0.0000	. 0998	. 0546
17	5.891	750	0.00	. 34	0.0000	.0998	. 0546
18	5.833	750	Ø. ØØ	.19	ଡ. ଡଡଡଡ	. 0998	. 0546
19	5.791	750	0.00	. Ø9	0.0000	. 0998	. 0546
20	5.765	750	0.00	.02	Ø. ØØØØ	. 0998	. 0546
21	5.757	750	0.00	ଡ. ଡଡ	0.0000	. 0998	. 0546

870901001 - PBS ROTOR #1 AERODYNAMIC ANALYSIS - THRU BLADE

THE MAXIMUM ROTOR D-FACTOR .521 OCCURED AT STAGE 1 ON STREAMLINE 2. THE MAXIMUM VANE D-FACTOR .429 OCCURED AT STAGE 1 ON STREAMLINE 21.

Compared to the second of the

THE MAXIMUM MERIDINAL MACH NO. .845 OCCURED AT STATION 8 ON STREAMLINE 10.

PERFORMANCE SUMMARY FOR 870901001:

	SPEC FLOW	FLOW RATE	CORR FLOW		-S T A	G E	VANE	C/J	MULATI	VE
	1 4	IN	IN	P/P	ADIA EFF.	POLY EFF.	TO VANE	P/P	ADIA EFF.	POLY EFF.
REFERENCE ROTOR 1 STAGE 1	42.75 30.58	60.78 60.76 60.78	60.79 60.79 33.80	2.008 1.948	89.5 85.2	90.5 86.5	90.5	2.008 1.948	89.5 85.2	90.5 86.5
		TROPY RISE	MASS AV TOTAL PRESS -URE	/ERAGED TOTAL TEMP -ATURE	ROTOR TIP MACH NO.	VANE HUB MACH NO.	RESET ANGLE			
REFERENCE ROTOR 1 STAGE 1		2.1 3.0	14.69 29.51 28.62	518.71 646.35 646.37	.86	.73				

CORRECTED RPM 20188.
FLOW COEF. .251
OVERALL ADIA. EFF. 85.19
PT COEF. .727
WORK COEF. .853
FLOW 60.78
RPM 20187.9
PRESSURE RATIO 1.948
EFFICIENCY 85.19

APPENDIX C
870901004 - PBS ROTOR #1 AERODYNAMIC ANALYSIS - THRU-BLADE

FREE STATION 1.000 IS INDEX 1

STRM- LINE	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.		ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
NUMBER								
1	13.300 -		179.2	239.1	0.0	238.1	518.71	513.99
5	12.536 -		185.0	238.1	0.0	238.1	518.71	513.99
3	11.790 -		190.7	238.1	0.0	238.1	518.71	513.99
4	11.061 -		196.2	238.1	0.0	238. 1	518.71	513.99
5	10.346 -		201.5	238.1	0.0	238.1	518.71	513.99
	9.645 -		206.4	238.1	Ø. Ø	238.1	518.71	513.99
7	8.957 -		211.0	238.1	0.0	238.1	518.71	513.99
8		-18.450	215.2	238.1	0.0	238.1	518.71	513.99
9		-18.450	219.0	238.1	0.0	238.1	518.71	513.99
10		-18.450	222.5	238.1	0.0	238.1	518.71	513.99
11		-18.450	225.5	238.1	0.0	238.1	518.71	513.99
12		-18.450	228.2	238.1		238.1	518.71	513.99
13		-18.450	230.5	238.1	0.0	238.1	518.71	513.99
14		-18.450	232.4	238.1	0.0	238.1	518.71	513.99
15		-18.450	234.0	238.1	0.0	238. 1	518.71	513.99
16		-18.450	235.3	238.1	0.0	238.1	518.71	513.99
17		-18.450	236.3	238.1	0.0	238.1	518.71	513.99
18		-18.450	237.1	238.1	0.0	238.1	518.71	513.99
19		-18.450	237.6	238.1	Ø. Ø	238.1	518.71	513.99
20		-18.450	238.0	238.1	0.0	238.1	518.71	513.99
21	. עועועו -	-18.450	238.1	238.1	0.0	238.1	518.71	513.99
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	ABSOL. VELOC.	ABSOL. MACH	
					TOTAL TEMP. RATIO	ABSOL. VELOC.	MACH	MACH
LINE NUMBER 1				PRESS.	TEMP.	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC. 238.1	MACH NUMBER .214	MACH NUMBER .2141
LINE NUMBER 1 2 3	13.300	PRESS.	PRESS.	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 238.1 238.1	MACH NUMBER .214 .214	MACH NUMBER .2141 .2141
LINE NUMBER 1 2 3 4	13.300 12.536	PRESS. 14.69 14.69	PRESS. 14.23 14.23	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 238.1 238.1 238.1	MACH NUMBER .214 .214 .214	MACH NUMBER .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5	13.300 12.536 11.790 11.061 10.346	14.69 14.69 14.69	PRESS. 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6	13.300 12.536 11.790 11.061	14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7	13.300 12.536 11.790 11.061 10.346 9.645 8.957	14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280	PRESS. 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612 6.953	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612 6.953 6.301	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATID 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612 6.953 6.301 5.656	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612 6.953 6.301 5.656 5.016	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.957 8.280 7.612 6.953 6.953 6.953 6.953 6.953	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 23456789 101123145	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612 6.953 6.301 5.656 5.016 4.380 3.748	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 12 3 14 15 16	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.612 6.953 6.301 5.656 5.016 4.380 3.748 3.119	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2345678901123456789011234567	13.300 12.536 11.790 11.061 10.346 9.645 8.957 8.280 7.613 6.953 6.301 5.656 5.016 4.3848 3.748 3.119 2.493	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 23456789011234567891123145678	13.300 12.536 11.790 11.061 10.346 9.645 8.953 6.953 6.953 6.955 5.016 4.380 3.748 3.119 2.493 1.868	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23 14. 23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18 19	13.300 12.536 11.790 11.061 10.3445 9.6457 8.953 6.953 6.953 6.953 6.953 6.301 5.616 4.348 3.119 2.493 1.868 1.245	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 9 1 1 1 1 3 1 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13.300 12.536 11.790 11.061 10.345 9.645 8.953 6.953 6.953 6.301 5.016 4.3848 3.119 2.498 1.845 1.845	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 18 19	13.300 12.536 11.790 11.061 10.3445 9.6457 8.953 6.953 6.953 6.953 6.953 6.301 5.616 4.348 3.119 2.493 1.868 1.245	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23 14.23	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1 238.1	MACH NUMBER .214 .214 .214 .214 .214 .214 .214 .214	MACH NUMBER .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141 .2141

FREE STATION 1.000 IS INDEX 1

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	13.300 -18.450	ଡ. ଡଡ	-41.16	0. 0000	. 0747	0.0000
2	12.536 -18.450	0.00	-38.99	Ø. ØØØØ	. 0747	Ø. ØØØØ
3	11.790 -18.450	Ø. ØØ	-36.76	Ø. ØØØØ	• Ø747	0.0000
4	11.061 -18.450	0.00	-34.49	ଡ. ଉପଡଡ	. 0747	Ø. ØØØØ
5	10.346 -18.450	ଡ. ଡଡ	-32.20	Ø. ØØØØ	• Ø747	0.0000
6	9.645 -18.450	ଡ. ଡଡ	-29.89	0.0000	. 0747	Ø. 0000
7	8.957 -18.450	ଡ. ଡଡ	-27.60	Ø. ØØØØ	. Ø747	0. 0000
8	8.280 -18.450	Ø. ØØ	-25.32	0.0000	. 0747	Ø. ØØØØ
9	7.612 -18.450	ଡ. ଡଡ	-23.06	ଡ. ଡଡଡଡ	. 0747	ଡ. ଡଡଡଡ
10	6.953 -18.450	ଡ.ଡଡ	-20.85	Ø. ØØØØ	. Ø747	0.0000
11	6.301 -18.450	0.00	-18.68	Ø. 0000	. @747	0.0000
12	5.656 -18.450	Ø. ØØ	-16.56	Ø. ØØØØ	. Ø747	0.0000
1. 🕃	5.016 -18.450	ଡ. ଡଡ	-14.50	ଡ. ଡଡଡଡ	.0747	ଡ. ଉପଉପ
14	4.380 -18.450	Ø. ØØ	-12.50	Ø. ØØØØ	. 0747	0.0000
15	3.748 -18.450	Ø. ØØ	-10.57	0.0000	. Ø747	Ø. ØØØØ
16	3.119 -18.450	ଡ.ଡଡ	-8.69	0.0000	. 0747	Ø. ØØØØ
17	2.493 -18.450	0.00	-6.87	0. 	• Ø747	0.
18	1.868 -18.450	0.00	-5.11	Ø. ØØØØ	. 0747	Ø. ØØØØ
19	1.245 -18.450	0.00	-3.39	0.0000	. Ø747	Ø. ØØØØ
20	.622 -18.450	0.00	-1.70	0.0000	.0747	Ø. ØØØØ
21	.000 -18.450	ଡ. ଡଡ	0.00	Ø. ØØØØ	. 0747	ଡ. ଉପଉପ

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	9.480 -	16 001	447.5	5 77 A		EDD /	 10 1	/ DE . D.
ş	9.030 -		450.7	533.4	0.0	533.4	518.71	495.00
3	8.584 -			523.3	0.0	523.3	518.71	495.89
4	8.138 -		450.7	511.7	0.0	511.7	518.71	496.89
5			448.5	499.4	0.0	499.4	518.71	497.93
6	7.692 -		444.8	486.9	0.0	486.9	518.71	498.95
7	7.245 -		440.0	474.4	0.0	474.4	518.71	499.95
	6.794 -		434.5	462.3	0.0	462.3	518.71	500.90
<u>8</u> 9	6.341 -	-	428.3	450.5	0.0	450.5	518.71	501.80
	5.884 -		421.7	439.2	0.0	439.2	518.71	502.63
10	5.422 -		414.9	428.4	0.0	428.4	518.71	503.41
11	4.956 -		408.0	418.2	0.0	418.2	518.71	504.14
12	4.484 -		401.0	408.5	0.0	408.5	518.71	504.80
13	4.008 -		394.0	399.4	0.0	399.4	518.71	505.42
14	3.525 -		387.2	390.8	0.0	390.B	518.71	505.98
15	3.037 -		380.6	382.9	0.0	382.9	518.71	506.49
16	2.543 -		374.3	375.7	Ø. Ø	375.7	518.71	506.95
17	2.044 -		368.5	369.2	0.0	369.2	518.71	507.35
18	1.539 -		363.3	363.6	Ø. Ø	363.6	518.71	507.69
1.9	1.029 -		359.0	359.1	Ø. Ø	359.1	518.71	507.96
20	.516 -		356.1	356.1	Ø. Ø	356.1	518.71	508.14
21	. ଉଉଉ -	14.900	354.9	354.9	0.0	354.9	518.71	508.22
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RATIO	RATIO	4 mmm.	NUMBER	NUMBER
1	9.480	14.69	12.48	1.0000	1.0000	533.4	. 489	. 4890
2	9.030	14.69	12.56	1.0000	1.0000	523.3	. 479	. 4792
3	8.584	14.69	12.64	1.0000	1.0000	511.7	. 468	. 4682
4	8.138	14.69	12.74	1.0000	1.0000	499.4	. 456	. 4564
5	7.692	14.69	12.83	1.0000	1.0000	486.9	. 445	. 4445
6	7.245	14.69	12.92	1.0000	1.0000	474.4	. 433	. 4327
7	6.794	14.69	13.01	1.0000	1.0000	462.3	. 433	.4327
8	6.341	14.69	13.09	1.0000	1.0000	450.5	.410	. 4212
9	5.884	14.69		1.0000	1.0000	439.2		
10	5.422	14.69	13.23	1.0000	1.0000	428.4		. 3995
1. 1	4.956	14.69	13.30	1.0000	1.0000	418.2	.389	.3894
12	4.484	14.69	13.36	1.0000	1.0000		.380	.3798
13	4.008	14.69	13.42	1.0000	1.0000	408.5	.371	. 3708
14	3.525	14.69	13.47	1.0000		399.4	.362	.3623
15	3.023	14.69	13.52	1.0000	1.0000	390.8	. 354	. 3544
16	2.543	14.69			1.0000	382.9	. 347	3470
17	2.044	14.69	13.56 13.60	1.0000	1.0000	375.7	. 340	. 3403
18				1.0000	1.0000	369.2	. 334	. 3343
	1 . 70.474	7 A A A	1 4 4 4					
1 '-3	1.539	14.69	13.63	1.0000	1.0000	363.6	.329	.3291
19 20	1.029	14.69	13.66	1.0000	1.0000	359.1	.325	.3250
2Ø 21								

FREE STATION 2.000 IS INDEX 3

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	CODRD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	9.480 -14.081	ଡ. ଡଡ	-32.97	. Ø952	. 0680	Ø. ØØØØ
2	9.030 -14.119	Ø. ØØ	-30.55	.0982	.0683	Ø. ØØØØ
3	8.584 -14.158	0.00	-28.26	. 0984	.0687	Ø. ØØØØ
4	8.138 -14.197	0.00	-26.08	. 0967	.0690	0.0000
5	7.692 -14.235	0.00	-23.98	.0936	. Ø694	Ø. ØØØØ
6	7.245 -14.274	0.00	-21.94	. Ø896	. Ø697	0.0000
7	6.794 -14.313	ଡ. ଡଡ	-19.97	. 0848	. 0701	Ø. ØØØØ
8	6.341 -14.352	0.00	-18.06	. 0797	. 0704	Ø. ØØØØ
9	5.884 -14.391	0.00	-16.20	. 0743	. 0707	0.0000
10	5.422 -14.431	0.00	-14.40	. Ø688	.0710	Ø. ØØØØ
11	4.956 -14.472	ଡ. ଏହ	-12.66	.0633	.0712	0.0000
12	4.484 -14.512	ଡ. ଡଡ	-10.98	. 0579	. 0714	0 . 0000
13	4.008 -14.554	Ø. ØØ	-9.36	. 0525	. 0717	Ø. 0000
14	3.525 -14.595	Ø. ØØ	-7.81	.0472	.0719	Ø. 0000
15	3.037 -14.637	ଡ. ଡଡ	-6.32	. 0420	.0720	Ø. QQQQ
16	2.543 -14.680	0.00	-4.92	.0367	.0722	Ø. 0000
17	2.044 -14.723	Ø. ØØ	-3.62	.0312	.0724	ଡ. ଉଉଉଉ
18	1.539 -14.767	Ø. Ø Ø	-2.42	. 0254	.0725	0.0000
19	1.029 -14.811	0.00	-1.38	.0186	. 0726	0.0000
20	.516 -14.855	Ø. ØØ	58	.0102	. 0726	ଡ. ଉପ୍ପଡ
21	.000 -14.900	ଡ. ଡଡ	0.00	ଡ. ଡଡଡଡ	.0727	0.0000

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.960 -		575.Ø	605.7	0.0	605.7	518.71	488.13
2	8.520 -	12.743	571.8	595.2	0.0	595.2	518.71	489.18
3	8.084 -		567.5	585.4	Ø. Ø	585.4	518.71	490.14
4	7.652 -		562.5	576.0	0.0	576.Ø	518.71	491.06
5	7.222 -		556.7	566.8	Ø. Ø	566.8	518.71	491.93
6	6.793 -		550.2	557.5	0.0	557.6	518.71	492.80
7	6.366 -		543. Ø	548.1	Ø. Ø	548.1	518.71	493.67
8	5.939		535.0	538.3	0.0	538. 3	518.71	494.56
9	5.513 -		526.1	528.1	Ø. Ø	528.1	518.71	495.47
10	5.086 -		516.2	517.1	0.0	517.1	518.71	496.42
11	4.658 -		505.1	505.4	0.0	505.4	518.71	497.42
12	4.229 -		492.6	492.6	0.0	492.6	518.71	498.48
13	3.797 -		478.6	478.7	0.0	478.6	518.71	499.62
14	3.362 -		462.7	463.2	0.0	463.2	518.71	500.83
15	2.922 -		444.5	445.9	0.0	445.9	518.71	502.14
16	2.477 -		423.4	426.2	0.0	426.2	518.71	503.57
17	2.023 -		398.2	403.4	0.0	403.3	518.71	505.15
18 19	1.557 - 1.072 -		367.2	376.0	0.0	376.0	518.71	506.93
50		10.786	326.7	342.3	0.0	342.3	518.71	508.95
21		10.750	271.2 199.2	299.9	Ø. Ø	299.9	518.71	511.21
E-1	. <i>હાહાહ</i> –	10.000	133.6	252.3	0.0	252.3	518.71	513.40
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	ABSOL. VELOC.		ABSOL. MACH
	RADIUS			TOTAL PRESS. RATIO	TOTAL TEMP. RATIO	ABSOL. VELOC.	ABSOL. MACH NUMBER	ABSOL. MACH NUMBER
LINE NUMBER 1	RADIUS 8.960			PRESS.	TEMP.		MACH	MACH
LINE NUMBER 1 2	8.960 8.520	PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1 2 3	8.960 8.520 8.084	PRESS.	PRESS.	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 605.7	MACH NUMBER . 559	MACH NUMBER .5591
LINE NUMBER 1 2 3 4	8.960 8.520 8.084 7.652	14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 605.7 595.2	MACH NUMBER .559 .549	MACH NUMBER . 5591 . 5489
LINE NUMBER 1 2 3 4	8.960 8.520 8.084 7.652 7.222	PRESS. 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 605.7 595.2 585.4	MACH NUMBER . 559 . 549 . 539	MACH NUMBER . 5591 . 5489 . 5393
LINE NUMBER 1 2 3 4 5 6	8.960 8.520 8.084 7.652 7.222 6.793	PRESS. 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6	MACH NUMBER .559 .549 .539 .530 .521	MACH NUMBER .5591 .5489 .5393 .5301 .5212
LINE NUMBER 1 2 3 4 5 6 7	8.960 8.520 8.084 7.652 7.222 6.793 6.366	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1	MACH NUMBER .559 .549 .539 .530 .521 .512	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122
LINE NUMBER 1 2 3 4 5 6 7 8	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3	MACH NUMBER . 559 . 549 . 539 . 530 . 521 . 512 . 503 . 494	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937
LINE NUMBER 1 2 3 4 5 6 7 8	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1	MACH NUMBER .559 .549 .539 .530 .521 .512 .503 .494 .484	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937 .4838
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1	MACH NUMBER .559 .549 .539 .530 .521 .512 .503 .494 .484	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937 .4838 .4734
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.60	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1 505.4	MACH NUMBER .559 .549 .539 .530 .521 .512 .503 .494 .484 .473 .462	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937 .4838 .4734 .4621
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1 505.4 492.6	MACH NUMBER .559 .549 .539 .521 .512 .503 .494 .484 .473 .462	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937 .4838 .4734 .4621 .4500
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1 505.4 492.6 478.6	MACH NUMBER .559 .549 .530 .521 .512 .503 .494 .484 .473 .460 .450	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937 .4838 .4734 .4500 .4367
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797 3.362	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.00	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1 505.4 492.6 478.6 463.2	MACH NUMBER .559 .549 .539 .530 .512 .503 .494 .484 .473 .462 .450 .437	MACH NUMBER .5591 .5489 .5393 .5301 .5212 .5122 .5031 .4937 .4838 .4734 .4621 .4500 .4367 .4221
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797 3.362 2.922	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.00 13.12	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1 505.4 492.6 478.6 478.2 445.9	MACH NUMBER .549 .539 .530 .521 .512 .503 .494 .484 .462 .450 .422 .406	MACH NUMBER .5591 .5489 .5301 .5212 .5122 .5031 .4937 .4838 .4734 .4500 .4367 .4221 .4058
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797 3.362 2.922 2.477	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.00 13.12 13.25	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 517.1 505.4 492.6 478.6 445.9 426.2	MACH NUMBER .549 .539 .530 .511 .5103 .494 .494 .4450 .4450 .4450 .426 .406 .387	MACH NUMBER .55489 .5391 .5391 .5212 .5031 .5931 .4938 .4738 .4500 .4321 .4500 .4321 .4058 .3873
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.086 4.658 4.29 3.797 3.362 2.477 2.023	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.12 13.25 13.39	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.1 517.1 505.4 498.6 445.9 426.2 403.3	MACH NUMBER .5549 .5339 .5321 .512 .503 .494 .484 .450 .450 .437 .406 .386	MACH NUMBER .55489 .5391 .5391 .5212 .5031 .4933 .4933 .4623 .4500 .43621 .4058 .3660
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797 3.362 2.922 2.477 2.023	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.00 13.12 13.25 13.39 13.56	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 505.4 492.6 478.6 445.9 426.2 403.3 376.0	MACH NUMBER .549 .5330 .5321 .512 .503 .494 .484 .4450 .450 .426 .437 .406 .366 .341	MACH NUMBER .5591 .5489 .5301 .5312 .5122 .5122 .5031 .4937 .4838 .4734 .4500 .4367 .4221 .4058 .3660 .3406
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797 3.362 2.477 2.023 1.557	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.12 13.25 13.39 13.75	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 576.0 566.8 557.6 548.1 505.4 502.6 478.6 446.2 446.2 403.3 376.0 342.3	MACH NUMBER .5549 .5330 .5512 .5512 .594 .484 .494 .4453 .4450 .432 .432 .432 .432 .341 .309	MACH NUMBER .55489 .5391 .5391 .5212 .5122 .5031 .4933 .49338 .4721 .485067 .4221 .4958 .3666 .3494
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.960 8.520 8.084 7.652 7.222 6.793 6.366 5.939 5.513 5.086 4.658 4.229 3.797 3.362 2.922 2.477 2.023	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 11.88 11.97 12.06 12.13 12.21 12.28 12.36 12.44 12.52 12.60 12.69 12.79 12.89 13.00 13.12 13.25 13.39 13.56	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 605.7 595.2 585.4 576.0 566.8 557.6 548.1 538.3 528.1 505.4 492.6 478.6 445.9 426.2 403.3 376.0	MACH NUMBER .549 .5330 .5321 .512 .503 .494 .484 .4450 .450 .426 .437 .406 .366 .341	MACH NUMBER .5591 .5489 .5301 .5312 .5122 .5122 .5031 .4937 .4838 .4734 .4500 .4367 .4221 .4058 .3660 .3406

FREE STATION 3.000 IS INDEX 3

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	8.960 -12.851	0.00	-18.32	. 1067	.0657	Ø. ØØØØ
2	8.520 -12.743	0.00	-16.13	.0948	.0661	0.0000
3	8.084 -12.636	0.00	-14.20	.0865	. 0664	0.0000
4	7.652 -12.529	0.00	-12.45	. 0807	. 0667	0.0000
5	7.222 -12.424	Ø. ØØ	-10.82	. 0766	. 0670	0. 0000
6	6.793 -12.319	0.00	-9.28	.0738	.0673	0.0000
7	6.366 -12.214	0.00	-7.79	.0722	. 0676	0.0000
8	5.939 -12.109	Ø. ØØ	-6.33	.0715	.0679	0.0000
9	5.513 -12.004	ଡ. ଡଡ	-4.8 9	.0716	.0682	0.0000
10	5.086 -11.899	0.00	-3.44	.0727	.0685	0.0000
11	4.658 -11.794	ଡ. ଡଡ	-1.98	. 0749	.0689	0.
12	4.229 -11.689	0.00	48	.0782	.0692	Ø. ØØØØ
13	3.797 -11.583	Ø. ØØ	1.08	.0830	.0696	0.0000
14	3.362 -11.476	ଡ.ଡଡ	2.73	.0899	.0701	0.0000
15	2.922 -11.368	ଡ. ଡଡ	4.54	. 0996	. 0705	0.0000
16	2.477 -11.258	Ø. ØØ	6.61	.1135	.0710	0.0000
17	2.023 -11.147	Ø. ØØ	9.14	.1339	.0716	0.0000
18	1.557 -11.032	0.00	12.47	. 1643	.0722	Ø. ØØØØ
19	1.072 -10.913	0.00	17.36	.2093	.0729	0.0000
20	.555 -10.786	0.00	25.27	.2682	.0737	0.0000
21	.000 -10.650	0.00	37.85	.2963	. 0745	0.0000

STRM- LINE	RADIUS	AXIAL CODRD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
NUMBER								
1	8.550 -		708.2	714.2	0.0	714.2	518.71	476.19
2	8.172 -		689.2	693.4	0.0	693.4	518.71	478.63
3	7.791 -		671.9	674.6	0.0	674.7	518.71	480.77
4	7.410 -		655.9	657.6	Ø. Ø	657.6	518.71	482.67
5	7.027 -		640.9	641.7	Ø. Ø	641.7	518.71	484.39
6	6.644 -	10.763	626.3	626.6	0.0	626.6	518.71	485.99
7	6.260 -		611.8	611.9	0.0	611.9	518.71	487.50
8	5.875 -	10.612	597.1	597.2	Ø. Ø	597.2	518.71	488.98
9	5.490 -	10.536	581.7	582.3	0.0	582.3	518.71	490.44
10	5.104 -		565.5	567.0	0.0	567.0	518.71	491.92
11	4.717 -		548.1	551.0	0.0	551.0	518.71	493.41
12	4.330 -	10.308	529.5	534.3	0.0	534.3	518.71	494.92
13	3.943 -	10.232	509.5	516.8	0.0	516.8	518.71	496.45
14	3.557 -	10.156	487.9	498.6	0.0	498.6	518.71	497.99
15	3.172 -	10.080	454.6	479.B	0.0	479.7	518.71	499.53
16	2.792 -		439.2	460.6	Ø. Ø	460.6	518.71	501.03
17		-9.932	411.1	441.6	0.0	441.6	518.71	502.46
18	2.069	-9.863	379.4	423.8	Ø. Ø	423.8	518.71	503.74
19	1.755	-9.801	343.6	4 0 9.8	0.0	4Ø9.8	518.71	504.72
20	1.518	-9.755	302.7	402.9	Ø. Ø	402.9	518.71	505.18
21	1.421	-9.736	254.7	402.8	0.0	402.8	518.71	505.19
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	NUMBER
1	8.550	14.69	10.90	1.0000	1.0000	714.2	.667	.6675
9	8.172	14.69	11.09	1.0000	1.0000	693.4	- 546	. 6464
2							<i></i>	.6275
3	7.791	14.69	11.27	1.0000	1.0000	674.7	.628	* 05/7
3 4	7.791 7.410	14.69 14.69	11.42	1.0000 1.0000	1.0000 1.0000	674.7 657.6	.610	.6104
3 4 5	7.791 7.410 7.627	14.69 14.69 14.69						
3 4 5 6	7.791 7.410 7.427 6.644	14.69 14.69	11.42 11.57 11.70	1.0000	1.0000	657.6	.610	-6104
3 4 5 6 7	7.791 7.410 7.427 6.644 6.250	14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83	1.0000 1.0000	1.0000 1.0000	657.6 641.7 626.6 611.9	.610 .595	.6104 .5946
3 4 5 6 7 8	7.791 7.410 7.427 6.644 6.250 5.875	14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2	.610 .595 .580	. 6104 . 5946 . 5797
3 4 5 6 7 8 9	7.791 7.410 7.527 6.644 6.250 5.875 5.490	14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08	1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9	.610 .595 .580 .565	.6104 .5946 .5797 .5652
3 4 5 6 7 8 9 10	7.791 7.410 7.527 6.644 6.250 5.875 5.490 5.143	14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2	.610 .595 .580 .565 .551	.6104 .5946 .5797 .5652 .5508
3 4 5 7 8 9 10 11	7.791 7.410 7.627 6.644 6.250 5.875 5.490 5.149	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3	.610 .595 .580 .565 .551 .536	.6104 .5946 .5797 .5652 .5508 .5363
3 4 5 6 7 8 9 10 11 12	7.791 7.410 7.627 6.644 6.250 5.875 5.490 5.149 4.717 4.330	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0	.610 .595 .580 .565 .551 .536	.6104 .5946 .5797 .5652 .5508 .5363
3 4 5 6 7 8 9 10 11 12 13	7.791 7.410 7.427 6.644 6.250 5.875 5.490 5.149 4.717 4.330 3.943	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0	.610 .595 .580 .565 .551 .536 .521	.6104 .5946 .5797 .5652 .5508 .5363 .5214
3 4 5 6 7 8 9 10 11 12 13 14	7.791 7.410 7.427 6.644 6.250 5.875 5.490 5.149 4.717 4.330 3.943 3.557	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3	.610 .595 .580 .565 .551 .536 .521 .506	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059
3 4 5 6 7 8 9 1 1 1 1 2 3 1 4 1 5 1 5	7.791 7.410 7.427 6.644 6.250 5.875 5.496 5.179 4.717 4.330 3.943 3.557 3.172	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3 516.8	.610 .595 .580 .565 .551 .536 .521 .506 .490	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059 .4898
3 4 5 6 7 8 9 1 1 1 1 1 1 3 1 4 5 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.791 7.410 7.627 6.644 6.250 5.875 5.490 5.179 4.717 4.330 3.557 3.172 2.792	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88 13.02	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3 516.8 498.6	.610 .595 .580 .565 .551 .536 .521 .506 .490 .473	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059 .4898 .4730
3 4 5 6 7 8 9 10 11 12 13 14 15 16 7	7.791 7.410 7.627 6.644 6.250 5.875 5.490 5.177 4.330 3.943 3.557 3.172 2.792 2.421	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88 13.02 13.15	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3 516.8 498.6 479.7	.610 .595 .580 .565 .551 .536 .521 .506 .490 .473 .456	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059 .4898 .4730 .4556
3 4 5 6 7 8 9 1 1 1 1 2 1 3 1 4 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.791 7.410 7.627 6.644 6.250 5.875 5.490 5.177 4.330 3.943 3.557 3.172 2.421 2.069	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88 13.02	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3 516.8 498.6 479.7 460.6	.610 .595 .580 .565 .551 .536 .521 .506 .490 .473 .456 .438	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059 .4898 .4730 .4556 .4378
3 4 5 6 7 8 9 1 1 1 1 1 1 3 1 4 1 5 1 6 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.791 7.410 7.427 6.644 6.250 5.875 5.490 5.177 4.330 3.943 3.557 2.792 2.421 2.069 1.755	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88 13.02 13.15	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3 516.8 479.7 460.6 441.6	.610 .595 .580 .565 .551 .536 .521 .506 .490 .473 .456 .438 .420	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059 .4898 .4730 .4556 .4378 .4196 .4017
3 4 5 6 7 8 9 0 1 1 1 1 2 1 3 1 4 5 1 6 7 8 9 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.791 7.410 7.427 6.644 6.250 5.875 5.490 5.177 4.333 3.557 2.792 2.421 2.069 1.755 1.518	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88 13.02 15.15 13.26	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 582.3 567.0 551.0 534.3 516.8 479.7 460.6 441.6 423.8	.610 .595 .580 .565 .551 .536 .521 .506 .473 .476 .438 .420 .402	.6104 .5946 .5797 .5652 .5508 .5363 .5214 .5059 .4898 .4730 .4556 .4378 .4196 .4017
3 4 5 6 7 8 9 1 1 1 1 1 1 3 1 4 1 5 1 6 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.791 7.410 7.427 6.644 6.250 5.875 5.490 5.177 4.330 3.943 3.557 2.792 2.421 2.069 1.755	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.42 11.57 11.70 11.83 11.96 12.08 12.21 12.34 12.47 12.61 12.74 12.88 13.02 13.15 13.26 13.35	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	657.6 641.7 626.6 611.9 597.2 567.0 551.0 534.3 516.8 479.7 460.6 423.8 409.8	.610 .595 .580 .565 .551 .521 .500 .473 .476 .420 .420 .402 .385 .372	-6104 -5946 -5797 -5652 -5508 -5363 -5214 -5059 -48730 -4556 -4378 -4196 -4017 -3851 -3720

FREE STATION 4.000 IS INDEX 4

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	8.550 -11.138	ହ. ହହ	-7.39	. 1018	.0618	0.0000
2	8.172 -11.064	Ø. ØØ	-6.27	.0943	. 0626	0.0000
3	7.791 -10.989	ଡ. ଡଡ	-5.15	. 0881	. Ø633	Ø. 0000
4	7.410 -10.914	Ø. ØØ	-4.00	.0832	.0639	0.0000
5	7.027 -10.839	Ø. ØØ	-2.81	.0796	. Ø645	0.0000
6	6.644 -10.763	ଡ.ଡଡ	-1.57	.0773	. 0650	Ø. ØØØØ
7	6.260 -10.688	ଡ.ଡଡ	26	. 0761	. Ø655	Ø.
8	5.875 -10.612	0.00	1.12	.0761	. 0660	0.0000
9	5.490 -10.536	ଡ. ଡଡ	2.59	. 0771	. 0665	0.0000
10	5.104 -10.460	0.00	4.16	. 0790	. 0670	Ø. ØØØØ
11	4.717 -10.384	0.00	5.84	.0818	. 0675	ଡ. ଡଡଡଡ
12	4.330 -10.308	0.00	7.65	.0852	. 0680	0.0000
13	3.943 -10.232	ଡ.ଡଡ	9.64	.0891	.0685	ଡ. ଉପଉପ
14	3.557 -10.156	0.00	11.87	.0935	. Ø691	0.0000
15	3.172 -10.080	ଏ. ଏହା	14.45	. 0977	. 0696	ଡ. ଉଉଉଡ
16	2.792 -10.005	ହ. ହହ	17.55	.1009	.0701	ଡ. ଉପସଡ
17	2.421 -9.932	0.00	21.44	.1002	. 0706	Ø. 0000
18	2.069 -9.863	0.00	26.46	. 0880	.0711	Ø. 0000
19	1.755 -9.801	ଡ. ଡଡ	33.01	. 0460	.0714	0.0000
20	1.518 -9.755	0.00	41.29	0566	.0716	Ø. ØØØØ
21	1.421 -9.736	Ø. ØØ	50.79	2152	.0716	ଡ. ଉପଉଦ

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VEL.DC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-8.650	744.B	744.7	0.0	744.8	518.71	472.47
2	8.142	-8.675	740.6	740.4	0.0	740.4	518.71	473.01
3	7.786	-8.700	735.2	735.1	0.0	735.1	518.71	473.66
4	7.431	-8.725	728.1	728.1	0.0	728.2	518.71	474.51
5	7.078	-8.750	718.6	719.1	0.0	719.1	518.71	475.60
6	6.726	-8.775	706.4	707.7		707.7	518.71	476.96
7	6.374	-8.800	691.3	693.7	0.0	693.8	518.71	478.59
8	6.022	-8.824	673.3	677.3	0.0	677.4	518.71	480.46
9	5.669	-8.849	652.3	658.5	0.0	658.6	518.71	482.55
10	5.315	-8.874	628.7	637.6	0.0	637.8	518.71	484.81
11	4.958	-8.833	603.0	615.2	0.0	615.3	518.71	487.15
12	4.600	-8.924	576.1	592.0	0.0	592.1	518.71	489.49
13	4.240	-8.950	548.5	568.7	0.0	568.8	518.71	491.74
14	3.879	-8.975	520.8	546.1	0.0	546.2	518.71	493.85
15	3.519	-9.000	493.5	524.8	0.0	524.B	518.71	495.76
16	3.165	-9.025	466.9	505.5	0.0	505.4	518.71	497.42
17	2.825	-9.049	441.1	489.2	0.0	489.0	518.71	498.78
18	2.511	-9.071	416.1	476.7	0.0	476.5	518.71	499.78
19	2.243	-9.090	392.3	468.6		468.5	518.71	500.42
20	2.054	-9.103	372.2	464.9		464.8	518.71	500.70
21	1.984	-9.108	362.9	464.1	0.0	464.1	518.71	500.76
						101.1	0.10.71	766.10
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO		*·		NUMBER
ころしこびにん				RMILLI	RATIO		MIMPED	
NUMBER	8.500	14.69	10.50		RATIO 1. AAAA	744 A	NUMBER	
1	8.500 8.142	14.69 14.69	10.60 10.65	1.0000	1.0000	744.8 740.4	.699	.6988
1 2	8.142	14.69	10.65	1.0000 1.0000	1.0000 1.0000	740.4	. 699 . 694	.6988 .6943
1 2 3	8.142 7.786	14.69 14.69	10.65 10.70	1.0000 1.0000 1.0000	1.0000 1.0000 1.0000	740.4 735.1	. 699 . 694 . 689	.6988 .6943 .6888
1 2 3 4	8.142 7.786 7.431	14.69 14.69 14.69	10.65 10.70 10.76	1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2	. 699 . 694 . 689 . 682	.6988 .6943 .6888 .6817
1 2 3 4 5	8.142 7.786 7.431 7.078	14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1	. 699 . 694 . 689 . 682 . 672	.6988 .6943 .6888 .6817
1 2 3 4 5 6	8.142 7.786 7.431 7.078 6.726	14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7	. 699 . 694 . 689 . 682 . 672 . 661	.6988 .6943 .6888 .6817 .6725 .6609
1 2 3 4 5 6 7	8.142 7.786 7.431 7.078 6.726 6.374	14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8	. 699 . 694 . 689 . 682 . 672 . 661	.6988 .6943 .6888 .6817 .6725 .6609
1 2 3 4 5 6	8.142 7.786 7.431 7.078 6.726 6.374 6.022	14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4	.699 .694 .689 .682 .672 .661 .647	.6988 .6943 .6888 .6817 .6725 .6609 .6468
1 2 3 4 5 6 7 8	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669	14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6	.699 .694 .689 .682 .672 .661 .647 .630	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303
1 2 3 4 5 6 7 8 9	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8	.699 .694 .689 .682 .672 .661 .647 .630 .611	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115
1 2 3 4 5 6 7 8 9 10	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3	.699 .694 .689 .682 .672 .661 .647 .630 .611	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5907
1 2 3 4 5 6 7 8 9 10 11	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1	.699 .694 .689 .682 .672 .661 .630 .611 .591 .569	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5907 .5686
1 2 3 4 5 6 7 8 9 10 11	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80 12.00 12.19	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8	.699 .694 .689 .682 .672 .661 .647 .630 .511 .569 .546	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5907 .5686 .5458
1 2 3 4 5 6 7 8 9 10 11 12 13	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240 3.879	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 12.00 12.00	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2	.699 .694 .689 .682 .672 .661 .647 .630 .511 .569 .546 .523	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5907 .5686 .5458 .5232
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80 12.00 12.19 12.38 12.54	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2 524.8	.699 .694 .689 .682 .672 .647 .630 .611 .591 .546 .523 .501 .481	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5907 .5686 .5458 .5232 .5012 .4807
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240 3.879 3.519	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80 12.00 12.19 12.38 12.54 12.69	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2 524.8 505.4	.699 .694 .689 .682 .661 .647 .630 .611 .599 .523 .501 .481	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5907 .5686 .5458 .5232 .5012 .4807 .4622
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240 3.879 3.519 3.165	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 12.00 12.19 12.38 12.54 12.69 12.81	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2 524.8 505.4 489.0	.699 .694 .689 .682 .661 .631 .599 .543 .591 .5483 .481 .462	.6988 .6943 .6888 .6817 .6725 .6609 .6468 .6303 .6115 .5905 .5458 .5232 .5458 .5458 .5458 .5458 .5458 .5466
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240 3.879 3.165 2.825	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80 12.00 12.19 12.38 12.54 12.69 12.81	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2 524.8 505.4 489.0 476.5	.699 .694 .689 .682 .661 .631 .5631 .599 .5483 .462 .445	.6988 .6943 .6887 .6887 .6729 .6468 .6305 .6115 .5986 .5432 .5988 .5432 .4862 .4866 .4347
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.3158 4.600 4.240 3.879 3.519 3.165 2.825 2.511 2.243	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 12.00 12.19 12.38 12.54 12.69 12.96	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2 524.8 524.8 546.5 489.0 476.5 468.5	.699 .699 .6882 .671 .631 .5543 .596 .596 .596 .591 .4437 .4357	.6988 .6943 .6887 .6817 .6608 .6463 .6117 .5988 .5988 .5988 .59012 .4826 .4826 .4347
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.142 7.786 7.431 7.078 6.726 6.374 6.022 5.669 5.315 4.958 4.600 4.240 3.879 3.165 2.825 2.511	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.65 10.70 10.76 10.85 10.96 11.09 11.24 11.42 11.60 11.80 12.00 12.19 12.38 12.54 12.69 12.81	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	740.4 735.1 728.2 719.1 707.7 693.8 677.4 658.6 637.8 615.3 592.1 568.8 546.2 524.8 505.4 489.0 476.5	.699 .694 .689 .682 .661 .631 .5631 .599 .5483 .462 .445	.6988 .6943 .6887 .6887 .6729 .6468 .6305 .6115 .5986 .5432 .5988 .5432 .4862 .4866 .4347

FREE STATION 5.000 IS INDEX 5

RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
	COORD.	FLOW	LINE	TURE	ITY	KAGE
		ANGLE	SLOPE			
8.500	-8.650	ଅ. ହହ	58	.0120	. 0606	0.0000
8.142	-8.675	Ø. ØØ	10	.0132	.0607	0.0000
7.786	-8.700	Ø. ØØ	. 56	.0158	.0610	ଡ. ଡଡଡଡ
7.431	-8.725	0.00	1.40	.0203	.0612	ଡ. ଉଉଉଡ
7.078	-8.750	Ø. ØØ	2.43	.0262	.0616	0.0000
6.726	-8.775	Ø. ØØ	3.61	. 0332	. 0620	0.0000
6.374	-8.800	ଡା. ଡାଡା	4.93	. 0409	.0625	ଡ. ଉପରଡ
6.022	-8.824	0.00	6.39	. 0491	.0632	Ø. ØØØØ
5.669	-8.849	0.00	7.98	. Ø576	. 0639	ଡ. ଉପରତ
5.315	-8.874	0.00	9.68	.0658	. 0646	0.0000
4.958	-8.899	ଡ.ଡଡ	11.49	.0725	. 0654	0. 0000
4.600	-8.924	0.00	13.38	.0769	. Ø662	Ø. ØØØØ
4.240	-8.950	0.00	15. 39	. 0787	. 0669	Ø. ØØØØ
3.879	-8.975	Ø. ØØ	17.56	. 0774	. 0676	Ø. ØØØØ
3.519	-9.000	0.00	19.93	.0716	. 0683	Ø. ØØØØ
3.165	-9.025	ଡ.ଡଡ	22.59	.0591	.0689	0.0000
2.825	-9.049	ଡ. ଡଡ	25.66	. 0370	. 0693	Ø. ØØØØ
2.511	-9.071	Ø. ØØ	29.24	.0028	. Ø697	0.0000
2.243	-9.090	0.00	33.20	0431	.0699	Ø. ØØØØ
2.054	-9.103	0.00	36.85	0913	. 0700	Ø. ØØØØ
1.984	-9.108	ଡ. ଡଡ	38.59	1173	. 0700	Ø. ØØØØ
	8.500 8.142 7.786 7.431 7.078 6.374 6.669 5.315 4.950 4.240 3.519 3.165 2.243 2.254	COORD. 8.500 -8.650 8.142 -8.675 7.786 -8.700 7.431 -8.725 7.078 -8.750 6.726 -8.775 6.374 -8.800 6.022 -8.824 5.669 -8.849 5.315 -8.874 4.958 -8.899 4.600 -8.924 4.240 -8.950 3.879 -8.975 3.519 -9.000 3.165 -9.025 2.825 -9.049 2.511 -9.071 2.243 -9.090 2.054 -9.103	COORD. FLOW ANGLE 8.500 -8.650 0.00 8.142 -8.675 0.00 7.786 -8.700 0.00 7.431 -8.725 0.00 7.078 -8.750 0.00 6.726 -8.775 0.00 6.374 -8.800 0.00 6.022 -8.824 0.00 6.022 -8.824 0.00 6.022 -8.849 0.00 6.022 -8.849 0.00 6.022 -8.950 0.00 6.315 -8.874 0.00 6.000 -8.924 0.00 6.000 -8.925 0.00 6.511 -9.000 0.00 6.511 -9.071 0.00 6.000 -9.000 6.000 0.000 6.000 0.000 6.000 0.000 6.000 0.000 6.000 0.000 6.000 0.000	COORD. FLOW LINE ANGLE SLOPE 8.500 -8.650 0.0058 8.142 -8.675 0.0010 7.786 -8.700 0.00 .56 7.431 -8.725 0.00 1.40 7.078 -8.750 0.00 2.43 6.726 -8.775 0.00 3.61 6.374 -8.800 0.00 4.93 6.022 -8.824 0.00 6.39 5.669 -8.849 0.00 7.98 5.315 -8.874 0.00 9.68 4.958 -8.899 0.00 11.49 4.600 -8.924 0.00 13.38 4.240 -8.950 0.00 15.39 3.879 -8.975 0.00 17.56 3.519 -9.000 0.00 19.93 3.165 -9.025 0.00 22.59 2.825 -9.049 0.00 33.20 2.054 -9.103 0.00 36.85	COORD. FLOW LINE TURE 8.500 -8.650 0.0058 .0120 8.142 -8.675 0.0010 .0132 7.786 -8.700 0.00 1.40 .0203 7.078 -8.750 0.00 1.40 .0203 7.078 -8.750 0.00 2.43 .0262 6.726 -8.775 0.00 3.61 .0332 6.374 -8.800 0.00 4.93 .0409 6.022 -8.824 0.00 6.39 .0491 5.669 -8.849 0.00 7.98 .0576 5.315 -8.874 0.00 9.68 .0658 4.958 -8.899 0.00 11.49 .0725 4.600 -8.924 0.00 13.38 .0769 4.240 -8.950 0.00 15.39 .0787 3.879 -8.975 0.00 17.56 .0774 3.519 -9.000 0.00 19.93 .0716 3.165 -9.025 0.00 22.59 .0591 2.825 -9.049 0.00 33.200431 2.054 -9.103 0.00 36.850913	COORD. FLOW LINE SLOPE

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FREE STATION 6.000 IS INDEX 6

STRM- LINE	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
NUMBER								
1	8.500	-7.802	790.3	790.3	Ø. Ø	790.6	518.71	466.60
2	8.149	-7.876	800.7	800.6	0.0	800.9	518.71	465.24
3	7.802	-7.949	811.4	811.5	0.0	811.5	518.71	463.80
4	7.459	-8.015	817.2	817.8	0.0	817.7	518.71	462.97
5	7.119	-8.073	814.5	816.2	0.0	816.0	518.71	463.20
6	6.781	-8.124	802.9	806.4	0.0	806.1	518.71	464.54
7	6.444	-8.170	784.1	790.2	0.0	789.9	518.71	466.70
8	6.109	-8.212	760.1	769.4	0.0	769.0	518.71	469.41
9	5.774	-8.245	732.3	745.4	0.0	745.1	518.71	472.43
10	5.442	-8.263	701.7	719.5	0.0	719.3	518.71	475.58
11	5.114	-8.261	669.1	692.3	0.0	692.3	518.71	478.76
12	4.791	-8.243	635.6	664.7	0.0	664.9	518.71	481.86
13	4.473	-8.218	602.4	637.5	0.0	637.8	518.71	484.80
14	4.159	-8.194	570.5	611.4	0.0	611.8	518.71	487.51
15	3.851	-8.176	541.2	587.8	0.0	588.3	518.71	489.86
16	3.555	-8.160	515.8	568.4	0.0	568.8	518.71	491.74
17	3.279	-8.145	495.5	554.6	0.0	555.0	518.71	493.04
18	3.037	-8.133	480.9	547.2	0.0	547.5	518.71	493.73
19	2.845	-8.125	471.6	545.6	Ø. Ø	545 . 8		
20	2.719	-8.120	466.7	547.3	0.0	547.4	518.71	493.88 493.73
21	2.675	-8.119	465.0	548.5			518.71	
	~ · · · · · · ·	0.112	70016	U-0. U	Ø. Ø	548.6	518.71	493.63
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	REL OT.	ORSOL .	REI OT
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.		TOTAL	RELAT.		RELAT.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	RELAT. VELOC.	MACH	MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS.	PRESS.	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 1693.4	MACH NUMBER .746	MACH NUMBER 1.5988
LINE NUMBER 1 2	8. 500 8. 149	PRESS. 14.69 14.69	PRESS. 10.15 10.05	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 1693.4 1644.0	MACH NUMBER .746 .757	MACH NUMBER 1.5988 1.5544
LINE NUMBER 1 2 3	8.500 8.149 7.802	PRESS. 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4	MACH NUMBER .746 .757 .769	MACH NUMBER 1.5988 1.5544 1.5117
LINE NUMBER 1 2 3 4	8.500 8.149 7.802 7.459	PRESS. 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9	MACH NUMBER .746 .757 .769 .775	MACH NUMBER 1.5988 1.5544 1.5117 1.4672
LINE NUMBER 1 2 3 4	8.500 8.149 7.802 7.459 7.119	PRESS. 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5	MACH NUMBER .746 .757 .769 .775	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181
LINE NUMBER 1 2 3 4 5	8.500 8.149 7.802 7.459 7.119 6.781	PRESS. 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5	MACH NUMBER .746 .757 .769 .775 .773	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640
LINE NUMBER 1 2 3 4 5 6	8.500 8.149 7.802 7.459 7.119 6.781 6.444	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4	MACH NUMBER .746 .757 .769 .775 .773 .763	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0	MACH NUMBER .746 .757 .769 .775 .773 .763 .746	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2	MACH NUMBER .746 .757 .769 .775 .773 .763 .746 .724	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1834
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 10.16 10.37 10.60 10.85	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8	MACH NUMBER .746 .757 .759 .775 .773 .763 .746 .724 .699 .673	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1834 1.1211
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 10.85 11.10	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3	MACH NUMBER .746 .757 .769 .775 .773 .763 .746 .724 .699 .673	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1211 1.0591
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 10.85 11.10 11.36	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5	MACH NUMBER .746 .757 .769 .773 .763 .763 .746 .699 .673 .645	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1834 1.1211 1.0591 .9983
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 11.10 11.36 11.60	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7	MACH NUMBER .746 .757 .769 .773 .763 .746 .724 .699 .673 .645 .618	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3660 1.2454 1.1834 1.1211 1.0591 .9983 .9390
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 11.10 11.36 11.60 11.83	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4	MACH NUMBER .746 .757 .769 .773 .763 .746 .724 .699 .645 .618 .591	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1834 1.1211 1.0591 .9983 .9390 .8816
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159 3.851	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 10.16 10.37 10.60 11.36 11.36 11.83 12.03	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4 897.8	MACH NUMBER .746 .757 .759 .775 .773 .763 .746 .724 .699 .645 .618 .591 .565	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1211 1.0591 .9983 .9390 .8816 .8273
LINE NUMBER 1 2 3 4 5 6 7 8 9 1 1 1 1 2 1 3 1 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159 3.851 3.555	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 10.16 10.37 10.60 11.36 11.60 11.83 12.03 12.19	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4 897.8 845.8	MACH NUMBER .746 .757 .759 .773 .763 .764 .699 .673 .618 .591 .562 .542	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1211 1.0591 .9983 .9390 .8816 .8273 .779
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159 3.855 3.279	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 10.16 10.37 10.60 11.36 11.60 11.83 12.03 12.19 12.31	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4 897.8 845.8 800.5	MACH NUMBER .746 .757 .759 .773 .763 .763 .724 .699 .644 .699 .618 .510	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3060 1.2454 1.1211 1.0591 .9983 .9390 .8873 .7779 .7356
LINE NUMBER 1 2 3 4 5 6 7 8 9 0 11 12 14 15 16 17 18	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159 3.855 3.279 3.037	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 11.36 11.60 11.83 12.03 12.19 12.37	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4 897.8 845.8 800.9 765.4	MACH NUMBER .746 .757 .775 .773 .763 .746 .699 .649 .618 .591 .542 .510 .502	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3660 1.2454 1.1834 1.1211 1.0591 .9983 .9390 .8816 .8273 .7779 .7356 .7025
LINE NUMBER 1 23456789 1011231451671819	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159 3.851 3.555 3.279 3.845	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 11.10 11.36 11.60 11.36 11.36 11.36 11.37 12.33	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4 897.8 845.8 800.9 765.4 740.9	MACH NUMBER .746 .757 .769 .773 .7746 .724 .6973 .648 .591 .562 .510 .501	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3660 1.2454 1.1211 1.0591 .9983 .9390 .8873 .7756 .7025 .7025
LINE NUMBER 1 2 3 4 5 6 7 8 9 0 11 12 14 15 16 17 18	8.500 8.149 7.802 7.459 7.119 6.781 6.444 6.109 5.774 5.442 5.114 4.791 4.473 4.159 3.855 3.279 3.037	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS. 10.15 10.05 9.94 9.88 9.89 9.99 10.16 10.37 10.60 11.36 11.60 11.83 12.03 12.19 12.37	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 1693.4 1644.0 1596.4 1547.9 1496.5 1441.5 1383.4 1323.0 1261.2 1198.8 1136.3 1074.5 1013.7 954.4 897.8 845.8 800.9 765.4	MACH NUMBER .746 .757 .775 .773 .763 .746 .699 .649 .618 .591 .542 .510 .502	MACH NUMBER 1.5988 1.5544 1.5117 1.4672 1.4181 1.3640 1.3660 1.2454 1.1834 1.1211 1.0591 .9983 .9390 .8816 .8273 .7779 .7356 .7025

STRM- LINE	RADIUS	AXIAL CODRD.	ABSOL. FLOW	STRM- LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-7.802	ଡ. ଡଡ	0.00	0.0000	. 0587	.0145
2	8.149	-7.876	ଉ. ଉଡ	. 25	0140	.0583	.0149
3	7.802	-7.949	Ø. ØØ	. 95	0166	. 0578	.0156
4	7.459	-8.015	0.00	2.14	0059	. 0576	.0162
5	7.119	-8.073	ଡ. ଉଡ	3.69	.0124	. 0577	.0169
6	6.781	-8.124	0.00	5.38	.0293	. 0581	.0176
7	6. 444	-8.170	ଡ. ଡଡ	7.12	. 0405	. 0587	.0181
8	6.109	-8.212	0.00	8.89	. 0459	. 0596	.0185
9	5.774	-8.245	0. QQ	10.75	. 0490	. Ø6Ø6	.0188
10	5.442	-8.263	ଡ.ଡଡ	12.76	.0548	.0616	.0197
1.1	5.114	-8.261	Ø. ØØ	14.88	.0630	.0626	.0210
12	4.791	-8.243	ଉ. ଉଡ	17.02	.0693	. 0636	.0235
13	4.473	-8.218	ଡ. ଉଡ	19.09	.0695	. 0646	. 0265
14	4.159	-8.194	ଡ. ଡଡ	21.06	. 0620	. Ø655	.0301
15	3.851	-8.176	ଡ. ଡଡ	22.97	. 0475	. 0663	. 0369
16	3.555	-8.160	0.00	24.84	. 0270	. 0669	. 0454
17	3.279	-B.145	0.00	26.69	0006	. 0674	. 0573
18	3.037	-8.133	0.00	28.50	0363	.0676	. 0695
19	2.845	-8.125	0.00	30.18	0769	.0677	. 0799
2Ø	2.719	-8.120	0.00	31.50	1115	. 0676	. 0874
21	2.675	-B.119	0.00	32.02	1255	.0676	. 0901
STRM-	BLADE	BLADE	WHEEL				
LINE	SECT.	LEAN	SPEED				
NUMBER	ANGLE	ANGLE					
1	-53.96	7.35	1497.7				
2	-52.68	8.13	1435.8				
3	-51.87	7.18	1374.7				
4	-50.51	5.52	1314.3				
5	-48.97	3.70	1254.3				
6	-47.87	2.69	1194.8				
7	-47. Q4	1.74	1135.5				
8	-46.28	. 73	1076.3				
9	-45.50	67	1017.4				
10	-44.67	-2.00	958.8				
1. 1.	-43.78	-3.20	901.1				
12	-43.05	-3.24	844.2				
13	-42.12	-2.99	788.2				
14	-41.13	-2.40	732.9				
15	-40.22	-1.51	678.6				
16	-39.39	49	626.4				
17	-37.64	1.22	577.8				
18	-35.99	2.79	535. 2				
19	-34.24	4.42	501.2				
20	-33.12	5.47	479.1				
21	-32.74	5.84	471.4				

STATI	0N	6.200	IS INSIDE	E OF A R	OTOR WITH	INDEX	7	
STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.		ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-7.383	736.3	736.1	160.0	755 5	EC 1 00	545 /6
è	8.149	-7.383 -7.421	751.8	751.6	169.9 177.7	756.6	561.08	
2 3	7.808	-7.460	775.0	774.8	184.0	773.5 797.7	561.19	511.37
4	7.477	-7.497	803.6	803.7	189.0	827.0	550.87 560.19	507.87
5	7.156	-7.529	821.8	822.9	194.8	847.0	559.61	503.22 499.85
5 6	6.839	-7.558	832.3	835.6	200.8	860.6	559. Ø1	497.31
7	6.525	-7.585	833.6	840.2	207.4	866.5	558.41	495.88
8	6.211	-7.610	830.0	840.6	215.2	868.6	557.93	495.09
9	5.900	-7.630	821.9	837.6	225.0	867.9	557.67	494.93
10	5.594	-7.643	809.0	830.8	235.2	863.9	557.31	495.14
11	5.290	-7.650	780.1	808.9	230.1		554.42	495.47
	4.987	-7.653	743.2	779.2	215.3		550.21	495.76
13	4.683	-7.656	705.0	748.1	200.1	774.4	546.21	496.25
	4.380	-7.657	668.5	718.3	187.3	742.2	542.79	496.89
15	4.081	-7.660	634. Ø	689.8	177.2	712.1	539.94	497.69
16	3.790	-7.664	602.1	663.2	168.5	684.1	537.46	498.47
17	3.518	-7.670	574.8	640.4	160.6	659. 9	535.29	499.00
18	3.277	-7.675	554. Ø	622.9	153.6	641.2	533.49	499.23
19	3.085	-7.680	540.3	611.3	148.0	628.6	532.11	499, 18
20	2.959	-7.683	533.3	605.2	144.0	621.7	531.21	499.01
21	2.915	-7.684	531.2	603.5	142.5	619.6	530.90	498.91
				WE-W. D	17240	01240	226. 26	420° 27
STRM-	RADIUS	TOTAL						
STRM- LINE			STATIC PRESS.	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
LINE NUMBER		TOTAL	STATIC		TOTAL TEMP.		ABSOL. MACH	RELAT. MACH
LINE NUMBER 1		TOTAL	STATIC	TOTAL PRESS.	TOTAL TEMP. RATIO	RELAT. VELOC.	ABSOL. MACH NUMBER	RELAT. MACH NUMBER
LINE NUMBER 1 2	RADIUS 8.500 8.149	TOTAL PRESS.	STATIC PRESS. 13.25	TOTAL PRESS. RATIO	TOTAL TEMP. RATIO 1.0817	RELAT. VELOC. 1518.2	ABSOL. MACH NUMBER .681	RELAT. MACH NUMBER 1.3665
LINE NUMBER 1 2 3	RADIUS 8.500 8.149 7.808	TOTAL PRESS. 18.07	STATIC PRESS. 13.25	TOTAL PRESS. RATIO 1.2297	TOTAL TEMP. RATIO 1.0817 1.0819	RELAT. VELOC. 1518.2 1465.5	ABSOL. MACH NUMBER .681 .698	RELAT. MACH NUMBER 1.3665 1.3217
LINE NUMBER 1 2 3 4	RADIUS 8.500 8.149 7.808 7.477	TOTAL PRESS. 18.07 18.23 18.43 18.71	STATIC PRESS. 13.25 13.17 13.03 12.86	TOTAL PRESS. RATIO 1.2297 1.2404	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813	RELAT. VELOC. 1518.2	ABSOL. MACH NUMBER .681 .698 .722	RELAT. MACH NUMBER 1.3665 1.3217 1.2863
LINE NUMBER 1 2 3 4 5	RADIUS 8.500 8.149 7.808 7.477 7.156	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813	RELAT. VELOC. 1518.2 1465.5 1421.4	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752	RELAT. MACH NUMBER 1.3665 1.3217
LINE NUMBER 1 2 3 4 5 6	8.500 8.149 7.808 7.477 7.156 6.839	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2872	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 773	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595
LINE NUMBER 1 2 3 4 5 6 7	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2872 1.2863	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 753 . 787	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.90	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2872 1.2863 1.2859	TOTAL TEMP. RATIO 1.0817 1.0819 1.0800 1.0789 1.0777 1.0765 1.0756	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1262.5 1216.4	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 753 . 787	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948
LINE NUMBER 1 2 3 4 5 6 7 8 9	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900	TOTAL PRESS. 18. 07 18. 23 18. 43 18. 71 18. 84 18. 91 18. 90 18. 89	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44 12.45	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2863 1.2863 1.2859 1.2866	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0765 1.0756	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1262.5 1216.4	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 773 . 787 . 794 . 796 . 796	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.1562
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900 5.594	TOTAL PRESS. 18. 07 18. 23 18. 43 18. 71 18. 84 18. 91 18. 90 18. 89 18. 91	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44 12.45 12.50	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2872 1.2863 1.2863 1.2866 1.2861	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0755 1.0756 1.0751	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1262.5 1216.4 1168.4	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 753 . 787 . 794 . 796 . 796 . 792	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.1562 1.150 1.0711
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900 5.594 5.290	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.89 18.90 18.59	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44 12.50 12.54	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2863 1.2863 1.2866 1.2861 1.2648	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1262.5 1216.4 1168.4 1119.6	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 752 . 773 . 787 . 796 . 796 . 792 . 771	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.1562 1.1150 1.0711 1.0261 .9813
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900 5.594 5.290 4.987	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.90 18.59 18.11	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.45 12.50 12.54 12.58	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2863 1.2863 1.2866 1.2866 1.2648 1.2328	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0607	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1262.5 1216.4 1119.6 1071.1	ABSOL. MACH NUMBER . 681 . 698 . 722 . 752 . 752 . 773 . 787 . 796 . 796 . 796 . 792 . 771 . 741	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.1562 1.1150 1.0711 1.0261 .9813 .9373
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900 5.594 5.290 4.987 4.683	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.59 18.11 17.66	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44 12.50 12.54 12.58 12.63	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2863 1.2865 1.2866 1.2861 1.2648 1.2328 1.2016	TOTAL TEMP. RATIO 1.0817 1.0819 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0607	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1262.5 1216.4 1119.6 1071.1 1023.3 974.9	ABSOL. MACH NUMBER .681 .698 .722 .752 .773 .787 .794 .796 .796 .792 .771 .741	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.285 1.1948 1.1562 1.1150 1.0711 1.0261 .9813 .9373 .8925
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	RADIUS 8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900 5.594 5.290 4.987 4.683 4.380	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.90 18.59 18.11 17.66 17.27	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44 12.50 12.54 12.58 12.68	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2863 1.2865 1.2866 1.2866 1.2648 1.2328 1.2016 1.1753	TOTAL TEMP. RATIO 1.0817 1.0819 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0607 1.0530	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1306.5 1262.5 1216.4 1119.6 1071.1 1023.3 974.9 926.0	ABSOL. MACH NUMBER .681 .698 .752 .752 .773 .787 .794 .796 .796 .791 .741 .709 .679	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2855 1.1948 1.1562 1.1150 1.0711 1.0261 .9813 .9373 .8925 .8472
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	RADIUS 8.500 8.149 7.808 7.456 6.825 6.5211 5.900 5.594 5.290 4.688 4.081	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.91 18.90 18.11 17.66 17.27 16.95	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.44 12.50 12.54 12.58 12.63 12.68 12.75	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2731 1.2824 1.2863 1.2866 1.2866 1.2648 1.2628 1.2016 1.1753 1.1536	TOTAL TEMP. RATIO 1.0817 1.0819 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0607 1.0530 1.0464 1.0409	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1386.5 1262.5 1216.4 1168.4 1119.6 1071.1 1023.3 974.9 926.0 877.2	ABSOL. MACH NUMBER .681 .698 .752 .752 .773 .787 .794 .796 .796 .792 .771 .741 .709 .679 .651	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2585 1.1948 1.1562 1.1150 1.0711 1.0261 .9813 .9373 .8925 .8472 .8019
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	RADIUS 8. 500 8. 149 7. 453 7. 1539 6. 5211 5. 9094 5. 290 4. 683 4. 081 3. 790	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.91 18.90 18.11 17.66 17.27 16.95 16.68	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.45 12.50 12.54 12.58 12.68 12.68 12.75 12.82	TOTAL PRESS. RATIO 1.2297 1.2404 1.2543 1.2824 1.2863 1.2859 1.2866 1.2648 1.2648 1.2328 1.2016 1.1753 1.1536 1.1350	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0755 1.0756 1.0751 1.0744 1.0689 1.0607 1.0530 1.0464 1.0409 1.0362	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1216.4 1119.6 1071.1 1023.3 974.9 926.0 877.2 830.2	ABSOL. MACH NUMBER .681 .698 .722 .752 .752 .773 .794 .796 .796 .796 .792 .771 .741 .709 .651 .625	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.1562 1.1150 1.0711 1.0261 .9813 .9373 .8925 .8472 .8019 .7583
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	RADIUS 8.500 8.149 7.808 7.456 6.839 6.521 5.900 4.987 4.683 4.081 3.790 3.518	TOTAL PRESS. 18. 07 18. 23 18. 43 18. 71 18. 84 18. 91 18. 90 18. 89 18. 90 18. 59 18. 11 17. 66 17. 27 16. 68 16. 44	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.45 12.58 12.58 12.68 12.68 12.86	TOTAL PRESS. RATIO 1. 2297 1. 2404 1. 2543 1. 2731 1. 2824 1. 2863 1. 2863 1. 2866 1. 2648 1. 2648 1. 2328 1. 2016 1. 1753 1. 1536 1. 1350 1. 1188	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0607 1.0530 1.0464 1.0409 1.0362 1.0320	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1216.4 1119.6 1071.1 1023.3 974.9 926.0 877.2 830.2 788.1	ABSOL. MACH NUMBER .681 .698 .752 .752 .773 .794 .796 .796 .792 .771 .741 .709 .651 .625	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.1562 1.150 1.0711 1.0261 .9813 .9373 .8925 .8472 .8019 .7583 .7195
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	RADIUS 8.500 8.149 7.808 7.476 6.839 6.525 6.211 5.900 5.594 5.290 4.987 4.683 4.081 3.790 3.518 3.27	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.91 18.90 18.59 18.11 17.66 17.27 16.68 16.44 16.24	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.45 12.50 12.54 12.58 12.63 12.68 12.68 12.86 12.88	TOTAL PRESS. RATIO 1. 2297 1. 2404 1. 2543 1. 2824 1. 2863 1. 2863 1. 2866 1. 2866 1. 2648 1. 2648 1. 2328 1. 2016 1. 1753 1. 1536 1. 1350 1. 1188 1. 1054	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0687 1.0530 1.0464 1.0409 1.0362 1.0320 1.0285	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1216.4 1119.6 1071.1 1023.3 974.9 926.0 877.2 830.2 788.1 753.4	ABSOL. MACH NUMBER .681 .698 .752 .752 .773 .794 .796 .796 .792 .771 .709 .651 .603 .585	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.285 1.1948 1.150 1.0711 1.0261 .9813 .9373 .8925 .8019 .7583 .7195 .6877
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	RADIUS 8.500 8.149 7.808 7.456 6.525 6.5211 5.594 6.525 6.2987 4.6880 4.081 3.518 3.275 3.085	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.90 18.90 18.90 18.91 17.66 17.27 16.68 16.44 16.24	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.50 12.54 12.58 12.63 12.68 12.68 12.86 12.86	TOTAL PRESS. RATIO 1. 2297 1. 2404 1. 2543 1. 2731 1. 2824 1. 2863 1. 2866 1. 2866 1. 2648 1. 2648 1. 2328 1. 2016 1. 1753 1. 1536 1. 1350 1. 1188 1. 1054 1. 0952	TOTAL TEMP. RATIO 1.0817 1.0819 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0607 1.0530 1.0464 1.0409 1.0362 1.0320 1.0285 1.0258	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1306.5 1262.5 1216.4 1119.6 1071.1 1023.3 974.9 926.0 877.2 830.2 788.1 753.4 728.2	ABSOL. MACH NUMBER .681 .698 .752 .753 .787 .794 .796 .796 .771 .741 .709 .651 .603 .585 .574	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.2285 1.1948 1.150 1.0711 1.0261 .9813 .9373 .8925 .8472 .8019 .7583 .7195 .6847
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	RADIUS 8.500 8.149 7.808 7.476 6.839 6.525 6.211 5.900 5.594 5.290 4.987 4.683 4.081 3.790 3.518 3.27	TOTAL PRESS. 18.07 18.23 18.43 18.71 18.84 18.91 18.90 18.91 18.90 18.59 18.11 17.66 17.27 16.68 16.44 16.24	STATIC PRESS. 13.25 13.17 13.03 12.86 12.70 12.57 12.48 12.50 12.54 12.58 12.68 12.68 12.86 12.86 12.86	TOTAL PRESS. RATIO 1. 2297 1. 2404 1. 2543 1. 2824 1. 2863 1. 2863 1. 2866 1. 2866 1. 2648 1. 2648 1. 2328 1. 2016 1. 1753 1. 1536 1. 1350 1. 1188 1. 1054	TOTAL TEMP. RATIO 1.0817 1.0819 1.0813 1.0800 1.0789 1.0777 1.0765 1.0756 1.0751 1.0744 1.0689 1.0687 1.0530 1.0464 1.0409 1.0362 1.0320 1.0285	RELAT. VELOC. 1518.2 1465.5 1421.4 1385.4 1346.8 1306.5 1216.4 1119.6 1071.1 1023.3 974.9 926.0 877.2 830.2 788.1 753.4	ABSOL. MACH NUMBER .681 .698 .752 .752 .773 .794 .796 .796 .792 .771 .709 .651 .603 .585	RELAT. MACH NUMBER 1.3665 1.3217 1.2863 1.2595 1.285 1.1948 1.150 1.0711 1.0261 .9813 .9373 .8925 .8019 .7583 .7195 .6877

STRM- LINE	RADIUS	AXIAL COORD.	ABSOL. FLOW	STRM- LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.149 7.808 7.477 7.156 6.839 6.525 6.211 5.900 5.594 5.290	-7.383 -7.421 -7.460 -7.497 -7.529 -7.558 -7.585 -7.610 -7.630 -7.650 -7.653	ANGLE 13.00 13.36 13.24 13.32 13.51 13.86 14.36 15.80 15.88 15.44	SLOPE 0.00 16 .30 1.55 3.34 5.31 7.28 9.22 11.18 13.25 15.40 17.54	0.0000 0121 0261 0338 0370 0368 0332 0280 0251 0278 0278 0438	. \$\alpha 696 . \$\alpha 695 . \$\alpha 690 . \$\alpha 686 . \$\alpha 682 . \$\alpha 679 . \$\alpha 681 . \$\alpha 683 . \$\alpha 685	.1147 .1156 .1198 .1262 .1354 .1470 .1599 .1703 .1793 .1864 .1913
14	4.683 4.380	-7.656 -7.657	14.97 14.62	19.60 21.51	0478 0463	.0687 .0689	.2017 .2086
15	4.081	-7.660	14.41	23.27	0414	.0691	.2169
15 17	3.790 3.518	-7.664	14.26	24.84	0358	. Ø694	. 2255
18	3.277	-7.670 -7.675	14.08 13.86	26.19 27.25	0310 0279	. Ø696 . Ø696	. 2347 . 2450
19	3.085	-7.680	13.60	27.93	0284	. 0696	. 2543
20	2.959	-7.683	13.38	28.27	0333	.0695	.2613
21	2.915	-7.684	13.28	28.37	0365	.0695	. 2640
STRM- LINE NUMBER	BLADE SECT. ANGLE	BLADE LEAN ANGLE	WHEEL SPEED			LOSS COEF.	
1	-60.25	80	1497.7			. 0868	
2	-58.72	. 83	1435.8			.0789	
3	-56.93	1.38	1375.7			. Ø623	
4	-54.98	1.18	1317.5			. Ø349	
5	-52.80	17	1260.9			.0156	
6 7	-50.73 -48.66	-1.32 -2.38	1205.1 1149.7			0009	
é	-46.49	-3.24	1094.4			0118 0229	
9	-44.18		1039.7			0344	
10	-41.72	-3.87	985.6			0470	
11	-39.65	-3.55	932.1			Ø595	
12	-37.76	-3.21	878.7			0705	
13	-36.62	-3.20	825.1			0781	
14 15	-35.59 -34.63	-2.84	771.7			0846	
16	-33.16	-2.11 09	719.0 667.9			0906 - 0950	
17	-31.90	2.13	619.9			0952 0979	
18	-30.75	3.96	577.5			0988	
19	-29.90	5.41	543.5			0982	
20	-29.36	6.13	521.4			0969	
21	-29.17	6.29	513.7			0963	

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.		STATIC TEMP.
i	8.500	-6.984	673.8	673.1	321.6	747.4	598.87	552.40
2	8.147	-6.987	686.8	686.1	335.7	765.3	598.90	550.19
3	7.807	-6. 993	713.4	712.7	346. B	794.1	598.10	545.65
4	7. 487	-7.001	753.5	752.9	355.2	833.9		
5	7.181	-7.008	776.7	776.8			596.71	538.86
6	6.884	-7.014	792.2		364.6	859.4	595.49	534.04
7	6.591			793.8	374.1	878.7	594.23	529.99
é		-7.022	798.4	802.5	384.6	891.0	593.06	527.00
9	6.300	-7.031	804.2	811.8	396.9	904.6	592.04	523.95
10	6.013	-7.037	809.8	821.9	412.5	920.4	591.45	520.94
11	5.731	-7.036	814.6	832.3	431.1	938.Ø	591.16	517.94
12	5.452	-7.034	801.4	825.4	427.6	930.2	587.09	515.07
	5.172	-7.037	776.9	807.8	409.1	906. O	580.78	512.45
13	4.888	-7.051	746.6	785.0	387.5	875.9	574.27	510.40
14	4.600	-7.075	713.4	759.9	365.8	843.7	568. 08	508.80
15	4.313	-7.102	679.6	734.3	347.1	812.5	562.63	507.65
16	4.032	-7.127	647.0	709.4	331.8	783.4	557.97	506.86
17	3.767	-7.153	616.4	685.6	318.4	756. 1	553.91	506.30
18	3.529	-7.176	590.1	664.5	306.4	731.7	550.45	505.85
19	3. 337	-7.195	569.7	647.3	296.7	712. C	547.77	505.54
20	3.210	-7.207	556.6	635.7	290.0	696.5	546.03	505.38
21	3. 165	-7.212	552.2	631.5	287.6	693.7	545.42	505.34
STRM-	RADIUS	TOTAL.	STATIC	TOTAL	TOTO	BEL OT	UDGU!	מלו לאי
STRM- LINE	RADIUS	TOTAL	STATIC		TOTAL	RELAT.	ABSOL.	RELAT.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	RELAT. VELOC.	MACH	MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 21.45	PRESS. 16.17	PRESS. RATIO 1.4598	TEMP. RATIO 1.1545	VELOC.	MACH NUMBER . 649	MACH NUMBER 1.1759
LINE NUMBER 1 2	8.500 8.147	PRESS. 21.45 21.78	PRESS. 16.17 16.18	PRESS. RATIO 1.4598 1.4820	TEMP. RATIO 1.1545 1.1546	VELOC. 1355.1 1296.2	MACH NUMBER .649 .665	MACH NUMBER 1.1759 1.1270
LINE NUMBER 1 2 3	8.500 8.147 7.807	PRESS. 21.45 21.78 22.21	PRESS. 16.17 16.18 16.10	PRESS. RATIO 1.4598 1.4820 1.5114	TEMP. RATIO 1.1545 1.1546 1.1531	VELOC. 1355.1 1296.2 1251.6	MACH NUMBER .649 .665 .693	MACH NUMBER 1.1759 1.1270 1.0928
LINE NUMBER 1 2 3 4	8.500 8.147 7.807 7.487	PRESS. 21.45 21.78 22.21 22.81	PRESS. 16.17 16.18 16.10 15.96	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504	VELOC. 1355.1 1296.2 1251.6 1223.0	MACH NUMBER .649 .665 .693	MACH NUMBER 1.1759 1.1270 1.0928 1.0745
LINE NUMBER 1 2 3 4	8.500 8.147 7.807 7.487 7.181	PRESS. 21.45 21.78 22.21 22.81 23.10	PRESS. 16.17 16.18 16.10 15.96 15.78	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4	MACH NUMBER . 649 . 665 . 693 . 733	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497
LINE NUMBER 1 2 3 4 5 6	8.500 8.147 7.807 7.487 7.181 6.884	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9	MACH NUMBER 649 665 693 733 758	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497
LINE NUMBER 1 2 3 4 5 6	8.500 8.147 7.807 7.487 7.181 6.884 6.591	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25 23.21	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9	MACH NUMBER . 649 . 665 . 693 . 733 . 758 . 778 . 792	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25 23.21 23.19	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35 15.12	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5781	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7	MACH NUMBER .649 .665 .693 .733 .758 .778 .792	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25 23.21 23.19 23.20	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35 15.12 14.88	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5781 1.5786	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414 1.1402	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1	MACH NUMBER 649 665 693 733 758 778 792 806	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.731	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25 23.21 23.19 23.20 23.24	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35 15.12 14.88 14.63	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5786 1.5786	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1453 1.1414 1.1402 1.1397	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7	MACH NUMBER .649 .665 .693 .733 .758 .778 .792 .806 .822	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.731 5.452	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25 23.21 23.19 23.20 23.24 22.75	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35 14.88 14.63 14.39	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5781 1.5786 1.5815 1.5480	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414 1.1402 1.1397 1.1318	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6	MACH NUMBER . 649 . 665 . 693 . 733 . 758 . 778 . 792 . 806 . 822 . 841 . 836	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.731 5.452 5.172	PRESS. 21.45 21.78 22.21 23.81 23.25 23.21 23.29 23.24 22.75 21.95	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35 14.88 14.63 14.39 14.16	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5781 1.5786 1.5815 1.5480 1.4936	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1456 1.1456 1.1433 1.1414 1.1402 1.1397 1.1318 1.1197	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2	MACH NUMBER .649 .665 .733 .758 .778 .792 .806 .822 .841 .836	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829 .8569
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.731 5.452 5.172 4.888	PRESS. 21.45 21.78 22.21 23.10 23.25 23.21 23.19 23.20 23.24 22.75 21.95 21.10	PRESS. 16.17 16.18 16.10 15.96 15.78 15.57 15.35 14.88 14.63 14.39 14.16 13.97	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5786 1.5786 1.5480 1.4936 1.4358	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414 1.1402 1.1397 1.1318 1.1197 1.1071	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9	MACH NUMBER .649 .665 .693 .733 .758 .778 .792 .806 .822 .841 .836 .816	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829 .8569 .8277
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.731 5.452 5.172 4.888 4.600	PRESS. 21.45 21.78 22.21 22.81 23.10 23.25 23.21 23.29 23.24 22.75 21.95 21.10 20.31	PRESS. 16.17 16.18 16.10 15.78 15.57 15.35 15.12 14.88 14.63 14.39 14.16 13.97	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5798 1.5781 1.5786 1.5480 1.4358 1.4358 1.3820	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414 1.1402 1.1397 1.1318 1.1197 1.0952	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9 880.5	MACH NUMBER .649 .665 .693 .758 .758 .778 .792 .806 .822 .841 .836 .791 .763	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829 .8569 .8277 .7961
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.731 5.452 5.172 4.888 4.600 4.313	PRESS. 21.45 21.78 22.21 23.25 23.21 23.29 23.24 22.75 21.95 21.10 20.31 19.63	PRESS. 16.17 16.18 16.10 15.96 15.78 15.35 15.12 14.88 14.63 14.39 14.16 13.97 13.81	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5786 1.5786 1.5786 1.5815 1.5480 1.4358 1.4358 1.3820 1.3358	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1414 1.1402 1.137 1.1318 1.1197 1.1071 1.0952 1.0847	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9 880.5 842.4	MACH NUMBER .649 .665 .733 .758 .778 .792 .822 .841 .836 .816 .791 .763	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829 .8569 .8277 .7961
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.013 5.731 5.452 4.880 4.313 4.032	PRESS. 21.45 21.78 22.21 23.25 23.25 23.29 23.24 22.75 21.95 21.95 21.96	PRESS. 16.17 16.18 16.10 15.96 15.78 15.35 15.12 14.88 14.63 14.39 14.16 13.97 13.81 13.70 13.62	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5786 1.5786 1.5786 1.5786 1.5815 1.5480 1.4358 1.4358 1.3358 1.2970	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1456 1.1456 1.1452 1.1414 1.1402 1.137 1.1318 1.1197 1.1071 1.0952 1.0847 1.0757	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1046.1 1013.7 982.6 951.2 916.9 880.5 842.4 804.2	MACH NUMBER 6449 665 733 758 778 778 822 841 836 816 763 735 71	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829 .8569 .8569 .877 .7961 .7625
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.147 7.807 7.487 7.181 6.891 6.591 6.013 5.731 5.452 4.800 4.313 4.037	PRESS. 21.45 21.78 22.21 23.25 23.25 23.21 23.29 23.24 22.75 21.95 21.95 21.95 21.95 21.95	PRESS. 16.17 16.18 16.10 15.96 15.78 15.35 15.12 14.88 14.63 14.39 14.16 13.97 13.62 13.56	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5798 1.5786 1.5786 1.5786 1.5480 1.4358 1.4358 1.3358 1.2970 1.2638	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1453 1.1414 1.1402 1.137 1.1397 1.1397 1.10952 1.0847 1.0757 1.0679	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9 880.5 842.4 804.2 767.7	MACH NUMBER .649 .663 .758 .7798 .7796 .841 .836 .8763 .7763 .771 .685	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8569 .8569 .8569 .8761 .7625 .7285 .6958
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.452 4.880 4.313 4.032 767 3.529	PRESS. 21.45 21.78 22.21 23.21 23.25 23.21 23.29 23.24 22.75 21.95 21.10 20.31 19.63 19.06 18.57 18.16	PRESS. 16.17 16.18 16.10 15.78 15.57 15.35 14.88 14.63 14.39 14.16 13.97 13.81 13.70 13.56 13.52	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5781 1.5786 1.5480 1.4936 1.4358 1.4358 1.3358 1.2970 1.2638 1.2360	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414 1.1402 1.1397 1.1318 1.1197 1.0952 1.0847 1.0612	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9 880.5 842.4 804.2 767.7 735.6	MACH NUMBER .649 .693 .758 .7798 .7792 .841 .836 .816 .735 .71 .785 .687	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8829 .8569 .8569 .877 .7961 .7625
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.013 5.452 4.800 4.313 4.037 7.529 3.537	PRESS. 21.45 21.78 22.21 23.25 23.25 23.27 23.29 23.24 22.75 21.10 20.31 19.63 19.63 19.65 18.57 18.16	PRESS. 16.17 16.18 16.10 15.78 15.57 15.35 14.88 14.63 14.39 14.16 13.97 13.62 13.56 13.52 13.48	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5781 1.5786 1.5786 1.5480 1.4358 1.4358 1.3358 1.2970 1.2638 1.2146	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1456 1.1456 1.1453 1.1402 1.1397 1.1397 1.1397 1.1071 1.09567 1.0612 1.0560	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9 880.5 842.4 804.2 767.7 735.6 709.9	MACH NUMBER .649 .693 .758 .7798 .7792 .822 .841 .836 .711 .763 .715 .687	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9628 .9347 .9084 .8569 .8569 .8569 .8761 .7625 .7285 .6958
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.147 7.807 7.487 7.181 6.884 6.591 6.300 6.013 5.452 4.880 4.313 4.032 767 3.529	PRESS. 21.45 21.78 22.21 23.21 23.25 23.21 23.29 23.24 22.75 21.95 21.10 20.31 19.63 19.06 18.57 18.16	PRESS. 16.17 16.18 16.10 15.78 15.57 15.35 14.88 14.63 14.39 14.16 13.97 13.81 13.70 13.56 13.52	PRESS. RATIO 1.4598 1.4820 1.5114 1.5521 1.5719 1.5820 1.5781 1.5786 1.5480 1.4936 1.4358 1.4358 1.3358 1.2970 1.2638 1.2360	TEMP. RATIO 1.1545 1.1546 1.1531 1.1504 1.1480 1.1456 1.1433 1.1414 1.1402 1.1397 1.1318 1.1197 1.0952 1.0847 1.0612	VELOC. 1355.1 1296.2 1251.6 1223.0 1189.4 1154.9 1116.9 1080.7 1046.1 1013.7 982.6 951.2 916.9 880.5 842.4 804.2 767.7 735.6 709.9	MACH NUMBER .649 .693 .758 .7798 .7792 .841 .836 .816 .735 .71 .785 .687	MACH NUMBER 1.1759 1.1270 1.0928 1.0745 1.0497 1.0231 .9922 .9347 .9084 .8859 .8277 .7961 .7625 .7285 .6958 .6670

STAT	(DN	6.400	IS INSIDE	OF A	ROTOR WITH	INDEX	8
STRM- LINE NUMBER	RADIUS	AXIAL COORD.		STRM- LINE SLOPE	TURE	DENS- ITY	
1	8.500	-6.984	25.54	0.00	ଏ. ଉପ୍ରତ	. 0790	.1528
2	8.147	-6.987	26.07	42		. 0794	. 1534
3	7.807	-6.993	25.94	25		.0797	.1568
4	7.487	-7.001	25.26	.82		.0799	.1624
5	7.181	-7.008	25.14	2.50		. 0797	.1723
6	6.884	-7.014	25.23	4.37		.0793	.1839
7	6.591	-7.022		6.31		.0786	.1982
8	6.300	-7.031	26.05	8.22		.0779	.2114
9	6.013	-7.037	26.65	10.14		.0771	.2248
10	5.731	-7.036	27.38	12.07		.0762	. 2369
11	5.452	-7.034	27.39	14.04	0397	. 0754	. 2494
12	5.172	-7.037	26.86	16.06	0372	. 0746	. 2608
13	4.888	-7.051	26.27	18.16	Ø317	. 0739	. 2723
14	4.600	-7.075	25.71	20.29	0228	.0733	.2833
15	4.313	-7.102	25.30	22.39	0100	. 07:28	. 2951
16	4.032	-7.127	25.06	24.35	. 0054	.0725	.3078
17	3.767	-7.153	24.91	26.08		.0723	.3206
18	3.529	-7.176	24.76	27.49	. Ø4ØØ	.0721	. 3335
19	3.337	-7.195		28.47	. 0582	. 0720	. 3456
50	3.210	-7.207		29.00	.0739	.0719	.3545
21	3.165	-7.212	24.49	29.15	.0802	.0719	. 3579
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE	ANGLE					
1	-61.10	-6.91	1497.7			. 1544	
2	-58.50	-3.63	1435.4			. 1408	
3	-55. 58	82	1375.6			.1121	
4	-52.51	1.43	1319.1			. @634	
5	-48. 95	1.15	1265.3			.0283	
6	-45.64	. 57	1213.0			0023	
7	-42.59	45	1161.4			0232	
8	-39.61		1110.1		-	@448	
9	-36.73	-2.24	1059.5			0670	
10	-34.32	-3.01	1009.8			0915	
11	-31.90	-3.57	960.7			1166	
12	-30.02	-3.23	911.3			1404	
13	-28.04	-2.92	861.3			1582	
14	-26.32	-2.68	810.5			1736	
15	-24.96	-1.65	759.9			1876	
16	-23.75	23	710.5			1995	
17	-22.84	1.76	663.7			2076	
18	-22.22	3.61	621.9			2112	
19	-21.98	4.43	588.0			2104	
20	-21.85	4.89	565.5			- 2076	
21	-21.81	5.05	557.6		-	2060	

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELDC.		STATIC TEMP,
1	8.500	-6.594	595.6	594.9	452.7	748.7	631.48	584.92
ē	8.143	-6.561	610.7	610.0	470.7		631.04	581.58
3	7.804	-6.535	644.1	643.4	483.B		629.37	575.39
4	7.491	-6.514	696.6	696.0	492.8	853.6	626.92	566.36
5	7.201	-6. 497	722.2	722.2	502.3		624.72	
5 6	6.921	-6. 483	737.0	738.2				560.30
7					511.7	898.9	622.54	555.36
8	6.648	-6.472	738.9	742.1	522.6	908.3	620.54	551.95
9	6.377	-6.465	741.7	747.5	535.6	920.2	618.83	548.42
10	6.110	-6.458	745.6	754.9	552.4	936.0	617.67	544.81
	5.850	-6. 444	751.4	764.9	574.0	956.9	617.15	541.00
11	5.595	-6.429	743.7	762.3	575.2	955.5	613.06	537.13
12	5.342	-6.420	727.9	752.7	561.8	939.8	606.71	533.23
13	5.086	-6.427	707.2	739.8	545.1	919.4	600.01	529.67
14	4.824	-6. 456	684.3	726.1	526.3	897.3	593.17	526.17
15	4.558	-6.501	659.0	711.3	507.0		586.49	522.92
16	4.296	-6.547	632.3	695.9	490.7	851.9	580.54	520.13
17	4. 047	-6.591	605.5	580. 4	477.E	831.6	575.41	517.84
18	3.821	-6.631	580.1	664.9	466.4	812.4	571.00	516.05
19	3.637	-6.663	558.5	651.1	457.3	795.8	567.51	514.78
20	3.514	-6.684	543.8	641.3	451.1	784.2	565.22	514.01
21	3.470	-6.692	538.5	637.7	448.9	780.0	564.41	513.76
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	Ancol	OCL AT
			OIMILL	((((((((((((((((((((IUIME	KELMI.	HEDUL.	KELHI.
LINE		PRESS.						
LINE NUMBER			PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
	8.500		PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
NUMBER 1 2		PRESS.	PRESS.	PRESS. RATIO 1.6785	TEMP. RATIO 1.2174	VELOC.	MACH NUMBER .631	MACH NUMBER 1.0140
NUMBER 1	8.500	PRESS. 24.66 25.13	PRESS. 18.85 18.87	PRESS. RATIO 1.6785 1.7099	TEMP. RATIO 1.2174 1.2166	VELDC. 1202.5 1140.8	MACH NUMBER .631 .653	MACH NUMBER 1.0140 .9648
NUMBER 1 2	8.500 8.143	PRESS. 24.66 25.13 25.74	PRESS. 18.85 18.87 18.80	PRESS. RATIO 1.6785 1.7099 1.7520	TEMP. RATIO 1.2174 1.2166 1.2133	VELOC. 1202.5 1140.8 1099.2	MACH NUMBER .631 .653 .685	MACH NUMBER 1.0140 .9648 .9345
NUMBER 1 2 3 4	8.500 8.143 7.804 7.431	PRESS. 24.66 25.13 25.74 26.63	PRESS. 18.85 18.87 18.80 18.65	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086	VELOC. 1202.5 1140.8 1099.2 1081.0	MACH NUMBER .631 .653 .685 .732	MACH NUMBER 1.0140 .9648 .9345 .9264
NUMBER 1 2 3 4	8.500 8.143 7.804 7.491 7.201	PRESS. 24.66 25.13 25.74 26.63 27.02	PRESS. 18.85 18.87 18.80 18.65 18.46	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044	VELOC. 1202.5 1140.8 1099.2 1081.0 1053.1	MACH NUMBER .631 .653 .685 .732	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074
NUMBER 1 2 3 4 5 6	8.500 8.143 7.804 7.491 7.201 6.921	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20	PRESS. 18.85 18.87 18.80 18.65 18.46 18.23	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7	MACH NUMBER .631 .653 .685 .732 .759	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851
NUMBER 1 2 3 4 5 6 7	8.500 8.143 7.804 7.431 7.201 6.921 6.648	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10	PRESS. 18.85 18.87 18.80 18.65 18.46 18.23 17.98	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7	MACH NUMBER .631 .653 .685 .732 .759 .778	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557
NUMBER 1 2 3 4 5 6	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.20 27.10	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1	MACH NUMBER .631 .653 .685 .732 .759 .778 .789	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557 .8283
NUMBER 1 2 3 4 5 6 7	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10 27.01 26.97	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69 17.38	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1908	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557 .8283
NUMBER 1 2 3 4 5 6 7 8	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10 27.01 26.97 27.02	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69 17.38 17.04	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1898	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801 .818	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557 .8283 .8030 .7812
NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.595	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10 27.01 26.97 27.02 26.50	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69 17.38 17.04 16.68	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1898 1.1819	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801 .818 .839	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557 .8283 .8030 .7812
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.595 5.342	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10 27.01 26.97 27.02 26.50 25.63	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69 17.38 17.04 16.68 16.31	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1819 1.1896	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801 .818 .839 .841	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557 .8283 .8030 .7812 .7620 .7445
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.595 5.342 5.086	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10 27.01 26.97 27.02 26.50 25.63 24.66	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69 17.38 17.04 16.68 16.31 15.94	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358 1.8358	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1819 1.1696 1.1567	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801 .818 .839 .841 .830	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8557 .8283 .7812 .7620 .7445 .7255
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.595 5.342 5.086 4.824	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.10 27.01 26.50 25.63 24.66 23.68	PRESS. 18.85 18.87 18.80 18.65 18.46 18.23 17.98 17.69 17.38 17.04 16.68 16.31 15.94 15.57	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8389 1.8034 1.7440 1.6779 1.6118	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1819 1.1819 1.1696 1.1567 1.1436	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801 .818 .839 .841 .830 .815	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8030 .7812 .7620 .7445 .768
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.595 5.342 5.086 4.824 4.558	PRESS. 24.66 25.13 25.74 26.63 27.20 27.20 27.01 26.97 27.02 26.50 25.63 24.66 23.68 22.76	PRESS. 18.85 18.80 18.65 18.46 18.23 17.98 17.69 17.38 17.04 16.68 16.31 15.94 15.57	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358 1.6779 1.6779 1.6118 1.5488	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1908 1.1908 1.1819 1.1696 1.1567 1.1436 1.1307	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0 770.5	MACH NUMBER -631 -653 -685 -732 -759 -778 -789 -818 -839 -841 -830 -815 -798 -779	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8857 .8283 .7628 .7620 .7445 .7455 .7068 .6871
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.342 5.342 5.342 4.658 4.296	PRESS. 24.66 25.13 25.74 26.63 27.20 27.20 27.01 26.97 27.02 26.50 25.63 24.66 23.68 22.76 21.95	PRESS. 18.85 18.80 18.65 18.46 18.23 17.69 17.38 17.04 16.68 16.31 15.94 15.95	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358 1.6779 1.6779 1.6118 1.5488 1.4940	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1819 1.1696 1.1567 1.1436 1.1307 1.1192	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0 770.5 745.1	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .801 .818 .839 .841 .830 .815 .798 .779	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .8857 .8283 .7620 .7620 .7445 .7068 .7068 .6663
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.143 7.804 7.491 7.201 6.648 6.377 6.110 5.8595 5.342 6.55 5.342 4.296 4.296 4.047	PRESS. 24.66 25.13 25.74 26.63 27.20 27.20 27.01 26.97 27.02 26.50 25.63 24.66 23.68 22.76 21.95 21.27	PRESS. 18.85 18.87 18.80 18.65 18.46 18.23 17.69 17.38 17.04 16.68 16.31 15.94 15.95 14.71	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8383 1.8358 1.8358 1.8358 1.6779 1.6118 1.5488 1.4940 1.4476	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1908 1.1898 1.1819 1.1696 1.1567 1.1436 1.1307 1.1192 1.1093	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0 770.5 745.1 719.9	MACH NUMBER .631 .653 .685 .732 .759 .778 .789 .818 .839 .841 .830 .815 .798 .779 .762	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8857 .8857 .82830 .7812 .7620 .7445 .7658 .7668 .7668 .7653 .6663 .6452
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.859 5.342 5.342 4.555 4.855 4.855 4.854 4.296 4.047 3.821	PRESS. 24.66 25.13 25.74 26.63 27.20 27.10 27.01 26.97 27.02 26.50 25.63 24.66 23.68 22.76 21.27 20.70	PRESS. 18.85 18.87 18.80 18.65 18.46 18.23 17.68 17.69 17.38 17.04 16.68 16.31 15.57 15.23 14.95 14.71 14.53	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358 1.6779 1.6118 1.5488 1.4940 1.4476 1.4476	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1819 1.1696 1.1567 1.1436 1.1307 1.1192 1.1093 1.1008	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0 770.5 745.1 719.9 696.3	MACH NUMBER .631 .653 .685 .739 .759 .789 .801 .818 .839 .841 .830 .815 .798 .779 .762 .745	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .82830 .7812 .7620 .7445 .7855 .7068 .6663 .6452 .6251
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.850 5.342 5.086 4.558 4.296 4.296 4.047 3.821 3.637	PRESS. 24.66 25.13 25.74 26.63 27.02 27.20 27.01 26.97 27.02 26.50 25.63 24.66 23.68 22.76 21.27 20.70 20.25	PRESS. 18.85 18.80 18.65 18.46 18.23 17.69 17.69 17.04 16.63 14.95 14.71 14.53 14.40	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358 1.8358 1.6779 1.6118 1.6779 1.6118 1.5488 1.4940 1.4476 1.4086 1.3782	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1898 1.1819 1.1696 1.1567 1.1436 1.1307 1.1192 1.1093 1.1008 1.0941	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0 770.5 745.1 719.9 696.3 676.5	MACH NUMBER .631 .653 .685 .759 .778 .789 .801 .818 .839 .841 .839 .798 .779 .762 .779 .715	MACH NUMBER 1.0140 .9648 .9345 .9264 .9264 .9074 .8851 .8030 .7812 .7625 .7625 .7668 .6651 .6651 .6081
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.143 7.804 7.491 7.201 6.921 6.648 6.377 6.110 5.859 5.342 5.342 4.555 4.855 4.855 4.854 4.296 4.047 3.821	PRESS. 24.66 25.13 25.74 26.63 27.20 27.10 27.01 26.97 27.02 26.50 25.63 24.66 23.68 22.76 21.27 20.70	PRESS. 18.85 18.87 18.80 18.65 18.46 18.23 17.68 17.69 17.38 17.04 16.68 16.31 15.57 15.23 14.95 14.71 14.53	PRESS. RATIO 1.6785 1.7099 1.7520 1.8124 1.8392 1.8509 1.8440 1.8383 1.8358 1.8358 1.8358 1.6779 1.6118 1.5488 1.4940 1.4476 1.4476	TEMP. RATIO 1.2174 1.2166 1.2133 1.2086 1.2044 1.2002 1.1963 1.1930 1.1908 1.1819 1.1696 1.1567 1.1436 1.1307 1.1192 1.1093 1.1008	VELDC. 1202.5 1140.8 1099.2 1081.0 1053.1 1022.7 985.7 951.1 919.0 890.9 865.9 842.9 818.8 795.0 770.5 745.1 719.9 696.3	MACH NUMBER .631 .653 .685 .739 .759 .789 .801 .818 .839 .841 .830 .815 .798 .779 .762 .745	MACH NUMBER 1.0140 .9648 .9345 .9264 .9074 .8851 .82830 .7812 .7620 .7445 .7855 .7068 .6663 .6452 .6251

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE	DENS- ITY	BLOC- KAGE
1	8.500	-6.594	37.27	0.00	ଡ. ଉପସସ	. 0870	.1416
ê	8.143	-6.561	37.65	43	.0084	.0876	.1434
3	7.804	-6.535	36.94	22	.0168	.0882	.1469
4	7. 491	-6.514	35.30	. 85	.0190	.0889	.1517
5	7.201	-6.497	34.82	2.43	.0146	. 0889	
6	6.921	-6.483	34.73	4. 15	.0077		.1602
7	6. 548	-6.472				. Ø886 . Ø879	.1696
é	6.377	-6.465	35.15 35.62	5.88	. 0002 0072	. Ø873 . Ø871	.1812
9	5. 110	-6.458	36.20	7.59 9.31	0072		.1929
10	5.850	-6.444	36.89	11.06	0133	.0861	. 2047
11	5.595	-6.429				.0850	.2164
12			37. Ø4	12.91	0237	.0838	. 2283
13	5.342	-6.420	36.74	14.96	0232	.0825	.2414
		-6.427	36.39	17.23	0184	.0812	. 2559
14		-6. 456	35.94	19.68	0101	. 0799	.2720
15	4.558	-6.501	35.48	22.25	.0024	. 0786	. 2901
16	4.296	-6.547	35.19	24.82	.0197	.0776	.3082
17		-6.591	35.07	27.24	. 0404	. 0757	.3269
18	3.821	-6.631	35.05	29.37	.0628	.0760	. 3443
19	3.637	-6.663	35.08	31.04	.0839	.0755	.3598
20		-6.684	35.12	32.12	. 1001	.0752	.3710
21	3.470	-6.692	35.14	32.49	.1065	.0751	. 3751
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE	ANGLE					
1	-57.42	-11.17	1497.7			.2065	
2	-54.82	-5.00	1434.7			.1887	
3	-51.67	.32	1375.0			.1508	
4	-48.39	4.62	1320.0			.0857	
5	-44.86	4.48	1268.8			.0378	
6	-41.49	3.91	1219.6			0045	
7	-38.23	2.32	1171.3			0340	
8	-35.11	1.01	1123.6			0648	
9	-32.26	.03	1076.6			0967	
10	-29.52	91	1030.8			1319	
11	-26.61	-1.82	985.9			1694	
12	-23.85	-1.82	941.2			2077	
13	-21.14	-1.30	896.1			2402	
14	-18.72	82	849.9			2707	
15	-16.78	36	803.1			2986	
16	-15.41	.60	756.9			3233	
17	-14.28	1.65	713.0			3427	
18	-13.83	2.63	673.3			3545	
19	-13.63	3.44	640.9			3582	
20	-13.53	3.98	619.1			3565	
21	-13.51	4.07	611.4			3550	

STRM- LINE	RADIUS	AXIAL COORD.	AXIAL VELDC.			ABSOL. VELDC.		STATIC TEMP.
NUMBER		CODIND.	VLLOU.	VLLUU.	VELUC:	VELUU.	1546.	i CiriPa
1	8.500	-6.196	546.4	545.7	562.1	784.2	658.65	607.62
ē	8.140	-6.127	565.9	565.2	579.8	810.5	656.96	602.45
3	7.804	-6.070	607.7	607. Ø	590.6	847.6	653.73	594.09
4	7.501	-6.024	670.0	669.7	595.8		649.64	582.84
5	7.224	-5. 986	695.1	695.7	601.3	920.1	645.99	575.68
6	6.961	-5 . 954	706.5	708.4			642.47	570.11
7	6.704	-5. 927	701.9	705.7			639.33	566.55
8	6.450	-5.905	698.2	704.3	623.9	941.4	636.64	563.00
9	6.201	-5.886	695.9	704.B	637.9	951.1	634.65	559.48
10	5.960	-5.863	696.4	708.7			633.50	555.79
11	5.727	-5.836	690.4	706.9	665.7		630.44	552.00
12	5.499	-5.813	680.2	702.4	665.2	967.9	625.94	548.05
13	5. 274	-5.806	665.6	695.4	662.4		621.12	544.36
14	5.049	-5.820	650.3	689.9		954.2	616.19	540.47
15	4.821	-5.858	633.0	684.8	653. Ø	946.6		536.48
16	4.594	-5.914	613.1	679.2	647.4	938.7		532.61
17	4.376	-5.972	591.4	672.9	644.2		601.37	529.12
18	4.180	-6.023	569.9	666.6	642.8	926.3		526.11
19	4.020	-6.064	551.2	660.8				523.73
20	3.914	-6.091	538.2		641.9		592.38	522.16
21	3.876	-6.101	533.6	655.3	641.7	917.4		521.61
	2.2.2	W C	000.0	000° 0	W-71.7	311.4	031 00	001.01
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
STRM- LINE	RADIUS		STATIC PRESS.		TOTAL TEMP.	RELAT.		RELAT. MACH
	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	RELAT. VELOC.	MACH	MACH
LINE	RADIUS 8.500	PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1		PRESS. 27.56	PRESS. 20.76	PRESS. RATIO 1.8754	TEMP. RATIO 1.2698	VELOC.	MACH NUMBER . 649	MACH NUMBER .8961
LINE NUMBER 1 2	8.500 8.140	PRESS. 27.56 28.05	PRESS. 20.76 20.70	PRESS. RATIO 1.8754 1.9091	TEMP. RATIO 1.2698 1.2665	VELOC. 1083.1 1024.5	MACH NUMBER .649 .673	MACH NUMBER .8961 .8512
LINE NUMBER 1	8.500	PRESS. 27.56	PRESS. 20.76 20.70 20.55	PRESS. RATIO 1.8754 1.9091 1.9560	TEMP. RATIO 1.2698 1.2665 1.2603	VELOC. 1083.1 1024.5 991.8	MACH NUMBER .649 .673 .709	MACH NUMBER .8961 .8512 .8299
LINE NUMBER 1 2 3 4	8.500 8.140 7.804	PRESS. 27.56 28.05 28.74	PRESS. 20.76 20.70 20.55 20.35	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524	VELOC. 1083.1 1024.5 991.8 987.6	MACH NUMBER .649 .673 .709 .758	MACH NUMBER .8961 .8512 .8299 .8343
LINE NUMBER 1 2 3	8.500 8.140 7.804 7.501	PRESS. 27.56 28.05 28.74 29.78 30.16	PRESS. 20.76 20.70 20.55 20.35 20.13	PRESS. RATIO 1.8754 1.9091 1.9560	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454	VELOC. 1083.1 1024.5 991.8 987.6 967.0	MACH NUMBER .649 .673 .709 .758	MACH NUMBER .8961 .8512 .8299 .8343 .8219
LINE NUMBER 1 2 3 4 5 6	8.500 8.140 7.804 7.501 7.224	PRESS. 27.56 28.05 28.74 29.78	PRESS. 20.76 20.70 20.55 20.35	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2	MACH NUMBER .649 .673 .709 .758 .782	MACH NUMBER .8961 .8512 .8299 .8343 .8219
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.140 7.804 7.501 7.224 6.961	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3	MACH NUMBER .649 .673 .709 .758 .782 .797	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.140 7.804 7.501 7.224 6.961 6.704	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1	MACH NUMBER 649 673 709 758 782 797 802	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7	MACH NUMBER 649 673 709 758 782 797 802 809	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450 6.201	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3	MACH NUMBER 649 673 709 758 782 797 802 809 820 837	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450 6.201 5.960	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64 29.62	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155 1.9903	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9	MACH NUMBER .649 .673 .709 .758 .782 .797 .802 .809 .820	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6822
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450 6.201 5.960 5.727	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64 29.62	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0175 1.9903 1.9483	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3	MACH NUMBER .649 .673 .709 .758 .782 .797 .802 .809 .820 .837 .843	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6822 .6667
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450 6.201 5.960 5.727 5.499	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64 29.62 29.25 28.63	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155 1.9903	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067 1.1974	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8	MACH NUMBER 649 673 709 758 758 797 809 8809 837 843 843	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6822 .6667 .6511
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450 6.201 5.960 5.727 5.499 5.274	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64 29.62 29.25 28.63 27.88	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97 17.56	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155 1.9903 1.9483 1.8974	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5	MACH NUMBER 649 673 709 758 782 797 809 8809 837 843 843 8440	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6822 .6667 .6511 .6382
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.140 7.804 7.501 7.224 6.961 6.704 6.450 6.201 5.760 5.727 5.499 5.274 5.049	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64 29.62 29.25 28.63 27.88 27.12	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97 17.56 17.13	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155 1.9903 1.8974 1.8457	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067 1.1974 1.1879	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5 712.4	MACH NUMBER 6449 6743 7758 7758 7797 8009 8820 8837 8443 8443 8443 8443 8443 8443	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6822 .6511 .6382 .6273
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.140 7.801 7.224 6.961 6.201 5.704 6.201 5.729 5.479 5.274 5.274 4.594 4.594	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.79 29.64 29.62 29.25 28.63 27.88 27.12 26.33	PRESS. 20.76 20.70 20.55 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97 17.56 17.13 16.70	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155 1.9903 1.9483 1.8974 1.8457 1.7921	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067 1.1974 1.1879 1.1779	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5	MACH NUMBER 6449 673 7758 7758 7797 8009 8820 8820 8843 8843 8843 8834 8834	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7230 .6822 .6667 .6511 .6382 .6273 .6170
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.140 7.804 7.501 7.224 6.704 6.704 6.201 5.729 5.499 5.274 5.274 5.274 4.594 4.594 4.594 4.376 4.180	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.64 29.62 29.62 29.63 27.88 27.12 26.33 25.57	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97 17.56 17.13 16.70 16.28	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0586 2.0586 2.0418 2.0274 2.0175 1.9903 1.8457 1.8457 1.7401	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067 1.1879 1.1681	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5 712.4 698.2	MACH NUMBER .649 .673 .709 .758 .797 .809 .837 .843 .843 .843 .843 .843 .843 .843 .843	MACH NUMBER .8961 .8512 .8219 .8343 .8219 .8039 .7757 .7487 .7010 .6822 .6667 .6511 .63873 .6170 .6071
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.140 7.801 7.224 6.961 6.201 5.704 6.201 5.729 5.479 5.274 5.274 4.594 4.594	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.64 29.62 29.62 29.63 27.88 27.12 26.33 25.57 24.90	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97 17.56 17.13 16.28 15.90	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0586 2.0586 2.0418 2.0174 2.0175 1.9903 1.9483 1.8974 1.6944	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2454 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067 1.1974 1.1879 1.1681 1.1594	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5 712.4 698.2 684.8	MACH NUMBER .649 .673 .758 .758 .792 .809 .820 .837 .843 .840 .833 .840 .834 .834 .834 .834	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6867 .6511 .6382 .6273 .6170 .6071 .5985
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	8.500 8.140 7.501 7.224 6.7501 6.7501 6.201 5.729 6.201 5.729 7.294 7.29	PRESS. 27.56 28.05 28.74 29.78 30.16 30.25 30.00 29.62 29.62 29.63 27.88 27.12 26.33 27.80 24.33	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.36 17.97 17.56 17.13 16.28 15.90 15.59	PRESS. RATIO 1.8754 1.9091 1.9560 2.0586 2.0586 2.0418 2.0175 2.0175 1.9903 1.8457 1.7401 1.6944 1.6560	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2354 1.2355 1.2274 1.2235 1.2213 1.2154 1.2067 1.1974 1.1879 1.1681 1.1594 1.1519	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5 712.4 698.2 684.8 673.1	MACH NUMBER .649 .673 .709 .758 .797 .809 .837 .843 .843 .843 .843 .843 .843 .843 .843	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6667 .6511 .6383 .6170 .6071 .5985 .5918
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.140 7.804 7.501 7.224 6.704 6.201 6.201 5.729 5.279 5.279 5.279 4.821 4.594 4.594 4.020	PRESS. 27.56 28.05 28.74 29.78 30.25 30.20 29.64 29.62 29.63 27.88 27.12 26.33 25.57 24.33 23.89	PRESS. 20.76 20.70 20.55 20.35 20.13 19.90 19.64 19.36 19.06 18.72 18.37 17.56 17.13 16.70 16.28 15.90 15.59	PRESS. RATIO 1.8754 1.9091 1.9560 2.0267 2.0523 2.0586 2.0418 2.0274 2.0174 2.0155 1.9903 1.8974 1.8974 1.6944 1.6560 1.6259	TEMP. RATIO 1.2698 1.2665 1.2603 1.2524 1.2386 1.2325 1.2274 1.2235 1.2213 1.2154 1.2067 1.1974 1.1879 1.1681 1.1594 1.1519 1.1460	VELOC. 1083.1 1024.5 991.8 987.6 967.0 941.2 905.3 871.1 838.7 810.3 785.9 765.3 744.8 727.5 712.4 698.2 684.8 673.1 664.1	MACH NUMBER .649 .673 .709 .758 .798 .798 .887 .8809 .8837 .843 .843 .843 .843 .843 .843 .843 .843	MACH NUMBER .8961 .8512 .8299 .8343 .8219 .8039 .7757 .7487 .7232 .7010 .6867 .6511 .6382 .6273 .6170 .6071 .5985

STRM- LINE	RADIUS	AXIAL COORD.	ABSOL. FLOW	STRM- LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE
NUMBER			ANGLE	SLOPE			13710/0
1	8.500	-6.196	45.85	Ø.00	0.0000	.0922	.1276
2	8.140	-6.127	45.73	06	.0212	.0927	
3	7.804	-6.070	44.21	.62	. 0450	.0933	.1320
4	7.501	-6.024		1.87	.0529	.0943	. 1351
5	7.224	-5.986	40.84	3.38	. Ø497	. 0944	.1392
6	6.961	-5.954	40.58	4.91	.0427	.0942	.1438
7	6.704	-5.927	41.03	5.43	. 0350	. Ø936	.1498
8	6.450	-5.905	41.54	7.93	.0280	. 0928	.1560
9		-5.886	42.15	9.43	.0211	.0919	.1621
10	5.960	-5.863	42.84	10.95	.0139	. 0909	.1687
11		-5.836	43.28	12.64	. 0084	. Ø898	. 1759
12	5. 499	-5.813	43.44	14.65	.0058	. Ø885	.1839
13		-5.806	43.61	17.00	. 0060	. Ø871	. 1953
14	5.043	-5.820	43.67	19.65	.0082	. Ø856	.2078
15		-5.858	43.64	22.55	.0123	. Ø84Ø	. 2253
16		-5.914	43.63	25.59	.0190	. 0825	, 2454
17		-5.972	43.75	28.59	.0273	.0811	- 2661
18		-6.023	43.96	31.33	. 0357	. ଉଥଉଦ	.2863
19		-6. Ø64		33.57	.0428	. 0790	.3042
20			44.34	35.04	. Ø469	. 0784	.3161
21	3.876	-6.101	44.40	35.56	. 0480	.0782	. 3204
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE NUMBER	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE -55.51	ANGLE -17.43	1497.7			C14.C T3	
ė	-53.28	-17.43 -6.97	1434.3			.2463 .2243	
3	-50.11	1.98	1375.0			.1785	
4	-46.86	8.60	1373.6			.1003	
5	-42.97	9.47	1272.9			. 0420	
6	-39.33	9.51	1226.5			0098	
7	-35.79	7.49	1181.2			0467	
8	-32.21	5.75	1136.5			0854	
9	-28.75	4.66	1092.7			1257	
10	-25.44	3.77	1050.1			1703	
11	-22.03	3.41	1009.0			2192	
12	-18.47	3.12	968.9			2723	
13	-14.B1	3.49	929.3			3223	
14	-11.21	3.86	889.6			3746	
15	-8.43	3.56	849.5			4272	
16	-6.10	3.13	809.4			4763	
17	-4.B7	2.93	771.0			5189	
18	-4.25	2.88	736.5			5518	
19	-3.77	2.83	708.4			5715	
20	-3.80	2.90	689.6			5793	
21	-3.83	2.92	682.9			5808	

ROTOR 1 STA NO. 1		ION 7.0 2019		FLOW TIP SPEED			CT RATIO DF BLADES	
STRM- LINE NUMBER	RADIUS	AXIAL COORD.			TANG. VELOC.			
1 2 3	8.500 8.142	-5.673	544.3	543.9	657.4	853.7		622.98 614.99
3		-5.589					669.78	604.48
4 5	7.524 7.261						663.49 657.98	591.56 583.66
5 6		-5. 423					652.86	577.68
7		-5.384					648.33	574.02
8	6.532	-5.350					644.42	570.50
9						944.B		567.19
10			655.2				639.25	563.92
11	5.859	-5.254					638.41	560.67
12 13	5.655 5.461	-5.221 -5.198					637.65	557.22
14		-5.192	635.7			997.4 1013.5		553.93 550.27
15	5.096	-5.203	629.5				634.79	546.24
16	4.925	-5.233	622.4					541.93
17	4.763	-5.277		690.9				537.55
18		-5.325						533.42
19		-5.366						530.01
20	4.422	-5.393		697.9				527.72
21	4.395	-5.403	572.0	697.9	890.3	1131.5	633.38	526.92
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
LINE		PRESS.	PRESS.	PRESS.	TEMP.		MACH	MACH
NUMBER				RATIO			NUMBER	
1	8.500	29.91			1.3099		.674	
2	8.142	30.26		2.0596	1.3021		.702	
2 3 4	7.814 7.524	30.84 31.82	21.51	2.0985 2.1653	1.2912			
5	7.261	32.03	21.03		1.2685	925.1		
5 6	7.012	31.93		2.1730			. 807	.7672
7	6.770	31.47		2.1415		870.6	.805	.7411
8	6.532	31.06	20.26	2.1141	1.2423	837.8		.7153
. 9	6.299	30.75	19.98		1.2364			.6897
10	6.073	30.57	19.70		1.2324			.6660
11 12	5.859	30.57	19.39		1.2308			.6451
13	5.655 5.461	30.58 30.43	19.06 18.69	2.0808	1.2293			.6288
14	5.275	30.29	18.27	2.0710 2.0615	1.2273 1.2254			.6141
15	5.096	30.17	17.82		1.2238			.6049 .6015
16	4.925	30.09	17.34		1.2227			.6029
17	4.763	30.04	16.86		1.2221	691.1		.6079
18	4.618	30.01	16.41	2.0423	1.2217			.6148
19	4.500	29.99		2.0407	1.2213			.6216
2Ø	4.422	29.97		2.0397	1.2211			.6267
21	4.395	29.97	15.73	2.0393	1.2211	707.4	1.005	.6285

ROTOR 1 STA NO. :	STAT: 11 RPM	ION 7.0 201		FLOW TIP SPEED	60.07 1498.		CT RATIO OF BLADES	
STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-	D-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE	FACTOR
NUMBER			ANGLE	SLOPE	1	• • •	,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1	8.500	-5.777	51.54		0.0000	. 0955	.1108	.5518
2	8.142	-5.673	50.40	1.00	.0420	. 0956	.1110	.5585
3	7.814	-5.589	48.12	2.37	.0612	. 0960	.1116	.5522
4	7.524	-5.523	44.92	3.79	.0619	. 0970	.1118	.5289
5	7.261	-5.469	43.82	5.13	. 0541	.0973	.1116	.5179
6	7.012	-5.423	43.36	6.42	. Ø456	. Ø971	.1114	.5108
7	6.770	-5.384	43.72	7.70	. 0384	. 0965	.1113	.5123
8	6.532	-5.350	44.15	9.01	. 0336	. 0959	.1112	.5130
9	6.299	-5.321	44.71		.0313	.0951	. 1114	5134
10	6.073	-5.290	45.37	11.77	.0319	.0943	.1115	.5111
11	5.859	-5.254	46.15	13.34	.0314	. Ø934	.1116	.5064
12	5.655	-5.221	46.87	15.16	.0238	.0923	.1116	. 4983
13 14	5.461 5.275	-5.198 -5.192	47.63 48.30	17.23 19.54	.0074	.0911	.1126	. 4866
15	5.096	-5.203	48.87		0158 0437	.0896 .0881	.1155 .1183	.4698 .4442
16	4. 925	-5.233	49.44		0710	. 0864	.1279	.4112
17	4.763	-5.277	50.06		0893	.0847	. 1440	. 3735
18	4.618	-5.325	50.70		0962	.0831	.1593	.3334
19	4.500	-5.366	51.30		0949	.0817	.1727	. 2994
20	4.422	-5.393	51.74		0899	.0809	.1867	.2773
21	4.395	-5.403	51.91		0872	. 0806	.1918	.2697
				10 10 11 11				
STRM-	BLADE	BLADE	WHEEL	INCID-	DEVIA-	LOSS	ADIAB.	POLYT.
LINE	SECT.	LEAN	SPEED	ENCE	MOIT	COEF.	EFFIC.	EFFIC.
NUMBER	ANGLE	ANGLE						
1	-53.65	-20.74	1497.7	-8.226	-5.285	. 2747	72.53	75.10
2	-50.07	-8.00	1434.5	-8.180	-4.941	.2452	75.76	78.Ø8
3	-47.10	4.63	1376.8	-7.575	-3.341	. 1964	80.87	82.75
4	-44.21	12.88	1325.7		-1.206	.1227	88.37	89.56
5	-40.82	15.60	1279.4		-1.652	.0788	92.77	93.51
6	-37.53	16.70			-2.586	. Ø466	95.89	96.31
7	-33.93	14.54	1192.9		-4.364	. 0336	97.17	97.45
8	-30.20	12.62	1150.9		-5.947	.0213	98.32	98.49
9	-26.07	12.27	1109.8		-7.500	.0106	99.25	99.32
10	-22.20	11.94	1070.1		-8.233	0004	100.10	100.09
11	-17.54	13.23	1032.3		-9.034	0112	100.82	100.74
12 13	-12.99 -8.00	14.67	996.4 962.2		-9.526	~.0232	101.49	101.34
14	-2.12	15.88	929.4			0285	101.55	101.50
15	2.79	16.76 17.59	898.0			Ø33 9 Ø398	101.78 101.89	101.61 101.71
16	6.99	17.27	867.8			0456	101.97	101.71
17	10.78	15.92	839.3			0508	102.01	101.78
18	13.97	14.69	813.7			0555	102.01	101.84
19	16.55	13.68	792.9			0590	102.06	101.86
20	17.61	13.14	779.2			0611	102.07	101.88
21	17.96	12.94	774.4			0617	102.08	101.88

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-4.889	559.7	559.0	646.0	854.7	679.46	618.89
2	8.168	-4.818	593.7	593.4	655.3	884.6	675.43	610.54
3	7.864	-4.763	639.7	640.6	656.0	917.4	669.78	599.95
4	7.594	-4.714	701.3	703.9	651.0	959.3	663.49	587.11
5	7.347	-4.674	721.9	726.2	647.2	973.2	657.98	579.34
6	7.111	-4.646	728.3	734.4	643.9	977.2	652.86	573.55
7	6.882	-4.626	719.0	727.Ø	642.8	970.9	648.33	570.02
8	6.657	-4.612	711.6	721.8	644.5	968.2	644.42	566.55
9	6.437	-4.606	706.0	719.2	650.2	970.0	641.34	563.17
10	6.222	-4.610	704.0	720.7	661.1	978.4	639.25	559.70
11	6.015	-4.622	705.1	726.3	679.1	994.8	638.41	556.17
12	5.816	-4.643	705.6	732.4	697.8	1012.1	637.65	552.52
13	5.625	-4.673	700.7	733.9	715.2	1025.2	636.60	549,24
14	5.442	-4.713	695.0	735.7	733.2	1039.1	635.64	545.88
15	5.268	-4.763	688.9	738.4	751.9	1054.3	634.79	542.39
16	5.106	-4.818	682.9	742.6	771.9	1071.5	634.21	538.76
17	4.959	-4.876	677.1	748.5	792.7	1090.7	633.91	535.02
18	4.833	-4.932	671.4	755.9	811.8	1109.6	633.68	531.31
19	4.734	-4.977	666.4	763.3	827.6	1126.3	633.51	528.04
20	4.671	-5.006	662.7	769.Ø	838.0	1137.8	633.41	525.77
21	4.649	-5.016	661.3	771.1	841.6	1141.9	633.38	524.95
STRM-	RADIUS	TOTAL	STATIC		TOTAL	ABSOL.		ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL. MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 29.91	PRESS. 21.54	PRESS. RATIO 2.0354	TEMP. RATIO 1.3099	VELOC. 854.7	MACH NUMBER .701	MACH NUMBER .7007
LINE NUMBER 1 2	8.500 8.168	PRESS. 29.91 30.26	PRESS. 21.54 21.23	PRESS. RATIO 2.0354 2.0596	TEMP. RATIO 1.3099 1.3021	VELOC. 854.7 884.6	MACH NUMBER .701 .730	MACH NUMBER .7007 .7301
LINE NUMBER 1 2 3	8.500 8.168 7.864	PRESS. 29.91 30.26 30.84	PRESS. 21.54 21.23 20.95	PRESS. RATIO 2.0354 2.0596 2.0985	TEMP. RATIO 1.3099 1.3021 1.2912	VELOC. 854.7 884.6 917.4	MACH NUMBER .701 .730 .764	MACH NUMBER .7007 .7301 .7639
LINE NUMBER 1 2 3 4	8.500 8.168 7.864 7.594	PRESS. 29.91 30.26 30.84 31.82	PRESS. 21.54 21.23 20.95 20.71	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791	VELOC. 854.7 884.6 917.4 959.3	MACH NUMBER .701 .730 .764 .807	MACH NUMBER .7007 .7301 .7639 .8074
LINE NUMBER 1 2 3 4	8.500 8.168 7.864 7.594 7.347	PRESS. 29.91 30.26 30.84 31.82 32.03	PRESS. 21.54 21.23 20.95 20.71 20.50	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685	VELOC. 854.7 884.6 917.4 959.3 973.2	MACH NUMBER .701 .730 .764 .807 .825	MACH NUMBER .7007 .7301 .7639 .8074 .8246
LINE NUMBER 1 2 3 4 5	8.500 8.168 7.864 7.594 7.347 7.111	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2	MACH NUMBER .701 .730 .764 .807 .825 .832	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.168 7.864 7.594 7.347 7.111 6.882	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9	MACH NUMBER .701 .730 .764 .807 .825 .832 .829	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8294
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415 2.1141	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2	MACH NUMBER .701 .730 .764 .807 .825 .832 .829	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8294 .8295
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.75	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415 2.1141 2.0924	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0	MACH NUMBER . 701 . 730 . 764 . 807 . 825 . 832 . 839 . 830	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8294 .8295
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.75 30.57	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415 2.1415 2.1141 2.0924 2.0803	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4	MACH NUMBER . 701 . 730 . 764 . 807 . 825 . 832 . 839 . 830 . 834	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8294 .8295 .8336 .8435
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.75 30.57	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415 2.1415 2.0924 2.0803 2.0805	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4	MACH NUMBER . 701 . 730 . 764 . 807 . 825 . 832 . 839 . 830 . 834 . 843 . 860	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8295 .8295 .8336 .8435 .8603
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015 5.816	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.75 30.57 30.57	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85 18.50	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415 2.1415 2.0924 2.0803 2.0805 2.0808	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2293	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4 994.8 1012.1	MACH NUMBER . 701 . 730 . 764 . 807 . 825 . 832 . 829 . 830 . 834 . 843 . 860 . 878	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8295 .8295 .8295 .8236 .8435 .8435
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015 5.816 5.625	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.57 30.57 30.58 30.43	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85 18.50 18.14	PRESS. RATIO 2.0354 2.0596 2.0985 2.1653 2.1798 2.1730 2.1415 2.1441 2.0924 2.0803 2.0808 2.0710	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2	MACH NUMBER .701 .730 .764 .807 .825 .832 .839 .834 .843 .860 .878	MACH NUMBER - 7007 - 7301 - 7639 - 8074 - 8246 - 8322 - 8295 - 8336 - 8435 - 8403 - 8781 - 8921
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015 5.816 5.625 5.442	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.75 30.57 30.58 30.43 30.29	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85 18.50 18.14 17.77	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1798 2.1730 2.1415 2.1141 2.0924 2.0803 2.0805 2.0808 2.0710 2.0615	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2 1039.1	MACH NUMBER 701 730 764 807 825 829 832 834 843 843 860 878	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8294 .8295 .8336 .8435 .8435 .8435 .8435 .8403
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015 5.816 5.625 5.442 5.268	PRESS. 29.91 30.26 30.84 31.82 32.03 31.47 31.06 30.75 30.57 30.58 30.43 30.29 30.17	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85 18.50 18.14 17.77 17.39	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1798 2.1730 2.1415 2.1411 2.0924 2.0803 2.0805 2.0808 2.0710 2.0615 2.0532	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2254	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2 1039.1 1054.3	MACH NUMBER 701 730 764 807 825 825 839 834 843 860 878 907	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8322 .8295 .8336 .8435 .8435 .8433 .8403 .8921 .8921 .9071
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015 5.816 5.816 5.442 5.268 5.106	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.57 30.57 30.58 30.29 30.17 30.09	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85 18.50 18.14 17.77 17.39 16.99	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1798 2.1730 2.1415 2.1415 2.0924 2.0803 2.0805 2.0808 2.0805 2.0615 2.0532 2.0476	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2254 1.2258	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 978.4 994.8 1012.1 1025.2 1039.1 1054.3 1071.5	MACH NUMBER 701 730 764 807 825 832 839 834 843 860 878 907 923	MACH NUMBER .7001 .7639 .8074 .8246 .8322 .8294 .8295 .8335 .8403 .8781 .9031 .9032
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.437 6.222 6.015 5.816 5.625 5.442 5.268 5.106 4.959	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.57 30.57 30.58 30.43 30.29 30.17 30.09 30.04	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.78 19.49 19.18 18.85 18.50 18.14 17.77 17.39 16.98	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1798 2.1730 2.1415 2.1415 2.0803 2.0808 2.0808 2.0808 2.0808 2.0808 2.0808 2.0808	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2238 1.2227 1.2221	VELOC. 854.7 884.6 917.4 959.3 973.2 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2 1039.1 1054.3 1071.5 1090.7	MACH NUMBER 701 730 764 825 825 832 832 834 843 8460 878 927 923	MACH NUMBER .7001 .7639 .8074 .8246 .8322 .8295 .8295 .8295 .8236 .8435 .8403 .8921 .9032 .9415 .9616
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.222 6.015 5.816 5.625 5.442 5.106 4.959 4.833	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.57 30.57 30.57 30.57 30.43 30.43 30.43 30.09 30.04	PRESS. 21.54 21.23 20.95 20.71 20.57 20.04 19.78 19.49 19.18 18.50 18.14 17.77 17.39 16.59 16.19	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1730 2.1415 2.1441 2.0803 2.0805 2.0808 2.0710 2.0615 2.0615 2.0446 2.0423	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2293 1.2273 1.2254 1.2238 1.2227 1.2221 1.2217	VELOC. 854.7 884.6 917.4 959.3 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2 1039.1 1054.3 1071.5 1090.7 1109.6	MACH NUMBER 701 .730 .764 .807 .825 .829 .830 .834 .843 .860 .878 .907 .923 .941 .962	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8329 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8296
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.168 7.864 7.594 7.347 7.111 6.887 6.437 6.225 6.915 5.628 5.448 5.268 5.268 4.959 4.833 4.734	PRESS. 29.91 30.26 30.84 31.82 32.03 31.47 31.06 30.57 30.57 30.58 30.43 30.43 30.43 30.93 30.99	PRESS. 21.54 21.23 20.95 20.71 20.50 20.27 20.04 19.49 19.18 18.85 18.50 18.14 17.77 17.39 16.59 16.19 15.84	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1730 2.1415 2.1441 2.0924 2.0803 2.0808 2.0710 2.0615 2.0615 2.0476 2.0446 2.0407	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2238 1.2227 1.2213	VELOC. 854.7 884.6 917.4 959.3 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2 1039.1 1054.3 1071.5 1090.7 1109.6 1126.3	MACH NUMBER 701 .730 .764 .807 .825 .832 .839 .834 .843 .843 .860 .892 .907 .923 .941 .962 .982	MACH NUMBER .7001 .7639 .8074 .8246 .83294 .8295 .8295 .8336 .8403 .8403 .8403 .8403 .8403 .89071 .9032 .9031 .9031 .9036 .9036
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.168 7.864 7.594 7.347 7.111 6.882 6.657 6.222 6.015 5.816 5.625 5.442 5.106 4.959 4.833	PRESS. 29.91 30.26 30.84 31.82 32.03 31.93 31.47 31.06 30.57 30.57 30.57 30.57 30.43 30.43 30.43 30.09 30.04	PRESS. 21.54 21.23 20.95 20.71 20.57 20.04 19.78 19.49 19.18 18.50 18.14 17.77 17.39 16.59 16.19	PRESS. RATIO 2.0354 2.0596 2.0596 2.1653 2.1730 2.1415 2.1441 2.0803 2.0805 2.0808 2.0710 2.0615 2.0615 2.0446 2.0423	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2293 1.2273 1.2254 1.2238 1.2227 1.2221 1.2217	VELOC. 854.7 884.6 917.4 959.3 977.2 970.9 968.2 970.0 978.4 994.8 1012.1 1025.2 1039.1 1054.3 1071.5 1090.7 1109.6	MACH NUMBER 701 .730 .764 .807 .825 .829 .830 .834 .843 .860 .878 .907 .923 .941 .962	MACH NUMBER .7007 .7301 .7639 .8074 .8246 .8329 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8295 .8296

FREE STATION 8.000 IS INDEX 12

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-4.889	49.13	0.00	ଡ. ହେଉଡ	. 0940	. 1065
5	8.168	-4.818	47.84	2.14	.0184	.0938	.1060
3	7.864	-4.763	45.68	4.04	.0282	. 0943	. 1057
4	7.594	-4.714	42.76	5.52	.0314	. 0952	.1056
5	7.347	-4.674	41.71	6.70	. 0307	. 0955	. 1056
6	7.111	-4.646	41.24	7.76	.0278	. Ø954	.1057
7	6.882	-4.626	41.48	8.84	.0241	. Ø949	.1058
8	6.657	-4.612	41.76	9.98	.0206	.0942	.1060
9	6.437	-4.606	42.12	11.23	.0176	.0934	- 1063
10	6.222	-4.610	42.53	12.60	.0149	.0925	. 1066
11	6.015	-4.622	43.08	14.10	.0126	.0915	. 1070
12	5.816	-4.643	43.62	15.73	.0102	.0904	. 1075
13	5.625	-4.673	44.26	17.46	. 0070	.0892	. 1081
14	5.442	-4.713	44.90	19.30	.0020	.0879	.1087
15 16	5.268	-4.763	45.52	21.23	0059	. 0865	. 1094
17	5.106 4.959	-4.818 -4.876	46.11	23.24	0202	.0851	.1102
18	4.833		46.64	25.34	0449	.0837	.1109
19	4.734	-4.932 -4.977	47. Ø4	27.44	0772	.0822	.1116
50	4.671	-5.006	47.31	29.28	1089	.0810	.1121
21	4.649	-5.016	47.46 47.50	30.57 31.04	1323 1411	.0801	.1125
L- 1	7.075	7. 6.T.C	47.00	31.64	1411	.0798	.1126
STRM-	BLADE	BLADE					
STRM- LINE	BLADE SECT.	BLADE LEAN					
	BLADE SECT. ANGLE	BLADE LEAN ANGLE					
LINE	SECT.	LEAN					
LINE NUMBER	SECT. ANGLE	LEAN ANGLE					
LINE NUMBER 1	SECT. ANGLE 41.53	LEAN ANGLE 5.73					
LINE NUMBER 1 2 3 4	SECT. ANGLE 41.53 39.04	LEAN ANGLE 5.73 3.80					
LINE NUMBER 1 2 3 4 5	SECT. ANGLE 41.53 39.04 37.52	LEAN ANGLE 5.73 3.80 2.02					
LINE NUMBER 1 2 3 4 5	SECT. ANGLE 41.53 39.04 37.52 37.41	LEAN ANGLE 5.73 3.80 2.02					
LINE NUMBER 1 2 3 4 5 6 7	SECT. ANGLE 41.53 39.04 37.52 37.41	LEAN ANGLE 5.73 3.80 2.02 .48					
LINE NUMBER 1 2 3 4 5 6 7 8	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77					
LINE NUMBER 1 2 3 4 5 6 7 8	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23 36.63	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23 36.63 37.20	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23 36.63 37.20 37.89	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23 37.20 37.89 38.66	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23 36.63 37.20 37.89 38.66 39.64	LEAN ANGLE 5.73 3.80 2.02 .48 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68 -18.65					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.58 35.90 36.23 36.63 37.20 37.89 38.66 39.64 40.80	LEAN ANGLE 5.73 3.80 2.02 .48 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68 -18.65 -21.89					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	SECT. ANGLE 41.53 39.04 37.52 37.41 37.54 37.13 36.59 36.23 36.63 37.20 37.89 38.66 39.64 40.80 41.84	LEAN ANGLE 5.73 3.80 2.02 .48 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68 -18.65 -21.89 -25.32					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	SECT. ANGLE 41.53 39.04 37.52 37.41 37.13 36.59 36.23 36.63 37.20 37.89 38.66 39.64 40.80 41.84 42.75	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68 -18.65 -21.89 -25.32					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SECT. ANGLE 41.53 39.04 37.52 37.41 37.53 36.53 36.23 36.63 37.89 36.63 37.89 38.66 40.80 41.84 42.75 43.43	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68 -18.65 -21.89 -25.32 -28.81 -31.64					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	SECT. ANGLE 41.53 39.04 37.52 37.41 37.53 36.53 36.63 37.20 37.86 39.64 40.80 41.84 42.75 43.43	LEAN ANGLE 5.73 3.80 2.02 803 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.68 -15.68 -18.65 -21.89 -25.81 -31.64 -33.74					
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	SECT. ANGLE 41.53 39.04 37.52 37.41 37.53 36.53 36.23 36.63 37.89 36.63 37.89 38.66 40.80 41.84 42.75 43.43	LEAN ANGLE 5.73 3.80 2.02 .48 86 -2.03 -3.36 -4.77 -6.75 -8.77 -10.92 -13.23 -15.68 -18.65 -21.89 -25.32 -28.81 -31.64					

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STATOR 1 STA NO. 1:		10N 9.0	00 F	LOW	60.07	ASPE NO V	CT RATIO ANES	1.40 31
STRM- LINE	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.		STATIC TEMP.
NUMBER							-	
1_	8.500		695.8	695.8	0.0	695.8		639.35
2 3 4		-2.241	704.6	704.6		704.6	675.43	634.28
<u>ئ</u> د		-2.264	721.2	721.5		721.4		626.62
4	7.786	-2.286 -2.387	750.5	751.1		751.1 748.7	663.49	616.70 611.47
5 6	7.575 7.371	-2.307 -2.328	747.7 739.8	748.7 741.3		741.2		607.26
7	7.172	-2.350	739.B	732.7		732.7	648.33	603.76
á	6.980	-2.370	727.5	730.0		730.0		600.17
9	6.797	-2.388	728.0	731.2		731.2		596.95
10	6.625	-2.405	732.7	736.7		736.7	639.25	594.18
11		-2.420	739.6	744.5		744.5		592.38
12		-2.435	743.2	749.2		749.2	637.65	591.03
13	6.179	-2.44B	743.6	750.6	0.0	750.7	636.60	589.80
14	6.055	-2.459	744.6	752.7	Ø. Ø	752.7	635.64	588.58
15		-2.470	747.4	756.6		756.6	634.79	587.24
16	5.851	-2.480	751.6	762. Ø		762.0		585.99
17		-2, 489	755.4	766.9		766.9		585.06
18	5.711	-2.497	758.6	771.0		771.1		584.30
19		-2.502	760.9	774.1		774.2		583.73
20	5.639	-2.506	762.4	776.1		776.1		583.38
21	5.630	-2.507	762.9	776.7	0.0	776.8	633.38	583.26
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	
1	8.500	29.34	23.69	.9810	1.0000	695.8		.5612
2 3	8.249	29.52	23.67	. 9755	1.0000	704.6	. 571	.5706
3	8.010	29.85	23.62	. 9679	1.0000	721.4	.588	.5878
4	7.786	30.44	23.55	. 9568	1.0000	751.1		.6168
5	7. 575	30.35	23.46	. 9474	1.0000	748.7		.6175
6	7.371	30.12	23.36	. 9434	1.0000		.613	.6135
7	7.172	29.87	23.26	. 9491	1.0000	732.7	.608	.6082
8	6.980	29.71	23.15	. 9565	1.0000	730.0	.608	.6077
9	6.797	29.62 20.50	23.03	.9634	1.0000	731.2	.610	.6103
1 Ø 1 J.	6.625 6.464	29.59 29.58	22.90	.9681 .9676	1.0000	736.7 744.5	.616	.6164
12	6.315	29.49	22.75 22.60	.9646	1.0000 1.0000	744.3 749.2	.624 .629	.6239 .6285
13	6.179	29.33	22.44	.9638	1.0000	750.7	.630	.6304
14	6.055	29.18	22.28	.9633	1.0000	752.7	.633	.6328
15	5.946	29.08	22.13	.9639	1.0000	756.6	.637	.6368
16	5.851	29.02	21.99	.9647	1.0000	762.0	.642	.6420
17	5.773	28.98	21.87	9645	1.0000	766.9	.647	.6466
18	5.711	28.94	21.77	.9644	1.0000	771.1	.651	.6506
19	5.666	28.91	21.70	.9642	1.0000	774.2	. 654	. 6535
20	5.639	28.90	21.65	.9642	1.0000	776.1	.655	. 6553
21	5.630	28.89	21.64	.9642	1.0000	776.8	. 656	.6560

STATOR STA NO.	1 STAT	(ON 9.0	100	FLOW	60. 07	ASPEO NO V	CT RATIO ANES	1.40
STRM- LINE		AXIAL COORD.	ABSOL. FLOW	LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE	D- FACTOR
NUMBE			ANGLE	SLOPE				-
1	8.500	-2.220	0.00	0.00	ଡ. ଉଉଡଡ	. 1000	. 0904	. 4321
2 3	8.249	-2.241	0.00	. 85	0106	. 1007	.0904	. 4439
ა 4	8.010	-2.264	0.00	1.65	0198	. 1017	.0903	. 4443
5	7.786	-2.286	0.00	2.38	0267	. 1031	.0903	. 4336
5 6	7.575 7.371	-2.307	Ø. ØØ	3.02	0315	.1036	. 0904	. 4377
7	7.172	-2.328 -2.350	Ø. ØØ Ø. ØØ	3.61	0346	.1038	. 0904	. 4431
á	6.980	-2.370	Ø. 00	4.18 4.76	0383 0442	. 1040 . 1041	. 0905 . 0906	. 4452 . 4457
9	6.797	-2.388	0.00	5.36	0522	. 1041	. 0907	. 4459
10	6.625	-2.405	0.00	5.99	0618	. 1041	.0908	. 4426
11	6.464	-2.420	0.00	6.63	0719	. 1037	.0910	. 4432
ie	6.315	-2.435	0.00	7.24	0813	.1032	.0918	. 4460
13	6.179	-2.448	0.00	7.84	0900	.1027	.0914	. 4492
14	6.055	-2.459	0.00	8.42	0981	.1022	.0916	4513
15	5.946	-2.470	0.00	8.97	1053	. 1017	.0918	. 4523
16	5.851	-2.480	0.00	9.48	1116	.1013	.0920	. 4534
17	5.773	-2.489	0.00	9.93	1169	. 1009	.0920	. 4557
1.8	5.711	-2.497	0.00	10.32	1211	. 1006	.0920	. 4590
19	5.666	-2.502	ଡ. ଡଡ	10.61	1241	.1003	.0920	.4625
20	5.639	-2.506	ହା . ହାହା	10.79	1258	.1002	.0921	. 4651
21	5.630	-2.507	ଡ. ଡଡ	10.85	1264	. 1001	.0921	. 4661
STRM-	BLADE	BLADE		INCID-	DEVIA-	LOSS	ADIAB.	POLYT.
LINE	SECT.	LEAN		ENCE	TION	COEF.	EFFIC.	EFFIC.
NUMBE	R ANGLE	ANGLE						
1	-8. 96	02		7.598	8.960	.0678	70.3B	73.08
2	-8.24	02		8.796	8.240	.0822	72.89	75.39
3	7.68	Q1		8.153	7.683	. 1001	76.94	79.11
4	-7.30	00		5.358	7.295	. 1238	82.78	84.44
5	-7.05	. ଉଡ		4.171	7.046	. 1460	85.65	87.03
6	-6.83	. 00		4.109	6.828	. 1551	87.93	89.08
7	-6.70	. 00		4.905	6.701	. 1401	89.81	90.77
8	-6.58	00		5.858	6.584	. 1196	91.88	92.64
9	-6.49	00		5.883	6.494	. 0999	93.73	94.31
10 11	-6.41 -6.37	00		5.904	6.406	.0856	95.21	95.66
12	-6.37 -6.34	Ø1		5.879	6.373	. 0844	95.82	96.21
13	-6.34 -6.34	Ø1 Ø1		5.721	6.343	.0898	95.98	96.35
14	-6.34	Ø1		5.598	6.337	.0897	95.98	96.35
15	-6.35	Ø1		5.262 4.718	6.345 6.347	. 0887 . 0852	96.00 94.14	96.36 96.51
16	-6.37	Ø1		4. 268	6.371	.0811	96.16 96.34	96.67
17	-6. 45	02		3.889	6.454	.0792	96.34	96.67
18	-6.51	Ø3		3.614	6.514	.0774	96.34	96.67
19	-6.55	~. Ø4		2.966	6.555	.0758	96.33	96.67
50	-6.58	04		2.549	6.578	. 0748	96.33	96.66
21	-6.59	04		2.405	6.586	.0744	96.33	96.66
								

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-1.650	679.2	679.2	0.0	679.2	679.46	641.24
2	8.256	-1.650	687.4	687.4	0.0	687.4	675.43	
3	8.024	-1.650	702.8	702.9	0.0	703.0	669.78	628.81
4	7.808	-1.650	731.2	731.5	0.0	731.5	663.49	619.11
5	7.604	-1.650	726.7	727.2	0.0	727.2	657.98	614.11
6	7.407	-1.650	717.4	718.1	0.0	718.1	652.86	610.07
7	7.215	-1.650	707.4	708.3	0.0	708.3	648.33	606.69
ä	7.030	-1.650	703.7	704.8	Ø. Ø	704.8	644.42	603.18
9	6.855	-1.650	704.0	705.4	0.0	705.4	641.34	
10	6.690	-1.650	708.9	710.4	0.0	710.5	639.25	597.34
11	6.536	-1.650	716.2	718.0	0.0	718.1	638.41	595.60
12	6.395	-1.650	720.7	722.7		722.7	637.65	594.27
1.3	6.266	-1.650	722.5	724.6	0.0	724.6	636.60	593.00
14	6.149	-1.650	725.7	727.9	0.0	727.9	635.64	591.63
15	6. 047	-1.650	731.7	733.9	0.0		634.79	590.05
16	5.959	-1.650	740.0	742.3	0.0		634.21	588.45
17	5.887	-1.650	748.4	750.6	0.0	750.7	633.91	587.11
18	5.830	-1.650	756.0	758.2		758.3	633.68	585.93
19	5.789	-1.650	762.2	764.3		764.4	633.51	584.98
20	5.765	-1.650	766.2	768.3		768.3	633.41	584.38
21	5.757	-1.650	767.6	769.6	0.0	769.7	633.38	584.17
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STRM-	RADIUS	TOTAL	STATIC		TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	ABSOL. VELOC.	MACH	MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	
LINE NUMBER 1	8.500	PRESS. 29.34	PRESS. 23.94	PRESS. RATIO 1.9969	TEMP. RATIO 1.3099	VELOC. 679.2	MACH NUMBER . 547	MACH NUMBER .5470
LINE NUMBER 1 2	8.500 8.256	PRESS. 29.34 29.52	PRESS. 23.94 23.93	PRESS. RATIO 1.9969 2.0090	TEMP. RATIO 1.3099 1.3021	VELOC. 679.2 687.4	MACH NUMBER .547 .556	MACH NUMBER .5470 .5558
LINE NUMBER 1 2 3	8.500 8.256 8.024	PRESS. 29.34 29.52 29.85	PRESS. 23.94 23.93 23.91	PRESS. RATIO 1.9969 2.0090 2.0312	TEMP. RATIO 1.3099 1.3021 1.2912	VELOC. 679.2 687.4 703.0	MACH NUMBER . 547 . 556 . 572	MACH NUMBER .5470
LINE NUMBER 1 2 3 4	8.500 8.256 8.024 7.808	PRESS. 29.34 29.52 29.85 30.44	PRESS. 23.94 23.93 23.91 23.87	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791	VELOC. 679.2 687.4 703.0 731.5	MACH NUMBER .547 .556 .572 .600	MACH NUMBER .5470 .5558 .5717 .5995
LINE NUMBER 1 2 3 4	8.500 8.256 8.024 7.808 7.604	PRESS. 29.34 29.52 29.85 30.44 30.35	PRESS. 23.94 23.93 23.91 23.87 23.82	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685	VELOC. 679.2 687.4 703.0 731.5 727.2	MACH NUMBER . 547 . 556 . 572 . 600 . 598	MACH NUMBER .5470 .5558 .5717 .5995
LINE NUMBER 1 2 3 4 5	8.500 8.256 8.024 7.808 7.604 7.407	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1	MACH NUMBER .547 .556 .572 .600 .598 .593	MACH NUMBER .5470 .5558 .5717 .5995 .5985
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.256 8.024 7.808 7.604 7.407 7.215	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3	MACH NUMBER .547 .556 .572 .600 .598 .593	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66 23.56	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8	MACH NUMBER .547 .556 .572 .600 .598 .593 .586	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5865
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.855	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66 23.56 23.45	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0552 2.0500 2.0325 2.0222 2.0160	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2423 1.2423 1.2364	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4	MACH NUMBER .547 .556 .572 .600 .598 .593 .586 .585	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5865 .5873
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.855 6.690	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71 29.62 29.59	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66 23.56 23.45 23.33	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0552 2.0500 2.0325 2.0325 2.0222 2.0160 2.0139	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5	MACH NUMBER .547 .556 .572 .600 .598 .593 .585 .585	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5865 .5853 .5873 .5929
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.855 6.690 6.536	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71 29.62 29.59 29.58	PRESS.  23.94  23.93  23.87  23.82  23.74  23.66  23.56  23.45  23.33  23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2423 1.2423 1.2364 1.2324 1.2308	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1	MACH NUMBER .547 .556 .572 .600 .598 .593 .585 .585 .587 .593 .600	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5853 .5873 .5929 .6001
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.855 6.690 6.536 6.395	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71 29.62 29.59 29.58 29.49	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66 23.56 23.45 23.33 23.19 23.03	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2293	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7	MACH NUMBER .547 .556 .572 .600 .598 .593 .585 .587 .593 .605	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5853 .5873 .5929 .6001
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.855 6.690 6.536 6.395 6.266	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.58 29.49 29.33	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66 23.56 23.45 23.33 23.19 23.03 22.87	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0552 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2423 1.2364 1.2324 1.2308 1.2293 1.2273	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6	MACH NUMBER .547 .556 .572 .600 .593 .593 .585 .587 .590 .605 .607	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5853 .5873 .5929 .6046 .6069
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.855 6.690 6.536 6.266 6.149	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.58 29.49 29.33 29.18	PRESS. 23.94 23.93 23.91 23.87 23.66 23.56 23.45 23.33 23.19 23.03 22.69	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2308 1.2293 1.2254	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9	MACH NUMBER .547 .556 .572 .600 .598 .598 .585 .587 .5005 .607 .610	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5985 .5853 .5873 .5929 .6001 .60069 .6103
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.655 6.266 6.395 6.266 6.149 6.047	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.59 29.58 29.49 29.33 29.18 29.08	PRESS. 23.94 23.93 23.91 23.87 23.82 23.74 23.66 23.45 23.33 23.19 23.03 22.69 22.50	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0552 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859 1.9791	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2293 1.2254 1.2238	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9 734.0	MACH NUMBER .547 .552 .600 .598 .598 .585 .587 .6005 .607 .610	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5865 .5873 .5929 .6046 .6046 .6069 .6103
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.030 6.636 6.395 6.395 6.149 6.047 5.959	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.58 29.49 29.33 29.18 29.08	PRESS. 23.94 23.93 23.87 23.82 23.74 23.66 23.45 23.33 23.45 23.69 22.69 22.32	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0550 2.0522 2.0160 2.0139 2.0132 2.0171 1.9960 1.9859 1.9752	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2238 1.227	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9 734.0 742.3	MACH NUMBER .546 .572 .698 .598 .5885 .5887 .5890 .6007 .616 .616	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5985 .5863 .5873 .5929 .6046 .6069 .6103 .6162 .6241
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.256 8.024 7.808 7.604 7.407 7.215 7.035 6.635 6.395 6.395 6.2649 6.047 5.959 5.887	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.62 29.58 29.58 29.58 29.49 29.33 29.08 29.08	PRESS. 23.94 23.93 23.87 23.82 23.74 23.56 23.45 23.33 23.47 22.69 22.14	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0550 2.0520 2.0325 2.0222 2.0160 2.0139 2.0132 2.0971 1.9960 1.9959 1.9752 1.9720	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2254 1.2254 1.2254 1.2254 1.2227 1.2221	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9 734.0 742.3 750.7	MACH NUMB47 .552 .5500 .5936 .5985 .5887 .5885 .5887 .6005 .616 .622	MACH NUMBER .5470 .558 .5717 .5995 .5985 .5985 .5873 .5829 .6046 .6046 .6046 .6162 .6241 .6318
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.256 8.024 7.808 7.604 7.215 7.030 6.635 6.536 6.395 6.266 6.395 6.295 6.047 5.959 5.830	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.49 29.33 29.49 29.49 29.98 29.98	PRESS. 23.94 23.93 23.87 23.82 23.74 23.66 23.45 23.33 23.19 23.67 22.69 22.14 21.99	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0160 2.0139 2.0139 2.0132 2.0171 1.9960 1.9859 1.9752 1.9750 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2423 1.2364 1.2324 1.2308 1.2233 1.2254 1.2227 1.2221 1.2217	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9 734.0 742.3 750.7 758.3	MACH NUMBER .546 .572 .572 .698 .593 .5887 .5887 .5890 .607 .616 .632 .639	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5853 .5873 .5929 .6046 .6069 .6162 .6241 .6318 .6389
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.256 8.024 7.808 7.604 7.407 7.030 6.6539 6.690 6.5395 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.269 6.26	PRESS. 29.34 29.52 29.85 30.42 30.32 29.87 29.59 29.58 29.49 29.33 29.49 29.49 29.98 29.98 29.98	PRESS. 23.94 23.93 23.87 23.82 23.74 23.66 23.45 23.33 23.19 23.69 22.50 22.14 21.99 21.86	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0552 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0132 2.0971 1.9960 1.9959 1.9752 1.9752 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2238 1.2227 1.2221 1.2217 1.2213	VELOC.  679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9 734.0 742.3 750.7 758.3 764.4	MACH NUMB47 .5572 .5570 .5593 .5985 .5887 .5885 .5897 .607 .614 .6339 .6429 .6429	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5985 .5863 .5873 .5864 .6069 .6069 .6162 .6241 .6318 .6389 .6445
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.256 8.024 7.808 7.604 7.215 7.030 6.635 6.536 6.395 6.266 6.395 6.295 6.047 5.959 5.830	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.49 29.33 29.49 29.49 29.98 29.98	PRESS. 23.94 23.93 23.87 23.82 23.74 23.66 23.45 23.33 23.19 23.67 22.69 22.14 21.99	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0160 2.0139 2.0139 2.0132 2.0171 1.9960 1.9859 1.9752 1.9750 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2423 1.2364 1.2324 1.2308 1.2233 1.2254 1.2227 1.2221 1.2217	VELOC. 679.2 687.4 703.0 731.5 727.2 718.1 708.3 704.8 705.4 710.5 718.1 722.7 724.6 727.9 734.0 742.3 750.7 758.3	MACH NUMB47 .5572 .5593 .5993 .5993 .5990 .5905 .5907 .6007 .61229 .6429 .6429	MACH NUMBER .5470 .5558 .5717 .5995 .5985 .5929 .5853 .5873 .5929 .6046 .6069 .6162 .6241 .6318 .6389

FREE STATION 10.000 IS INDEX 14

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.650	ወ. ወወ	0.00	Ø. ØØØØ	. 1008	. 0493
2	8.256	-1.650	Ø, ØØ	.52	0053	. 1015	.0493
3	8.024	-1.650	0.00	1.19	0113	.1026	. 0493
4	7.808	-1.650	ଡ. ଡଡ	1.69	0191	. 1041	. 0493
5	7.604	-1.650	ଡ. ଡଡ	2.13	0275	. 1047	. 0493
6	7.407	-1.650	ଉ. ଉଡ	2.54	0352	. 1051	. 0493
7	7.215	-1.650	Ø. ØØ	2.93	0425	. 1053	. 0493
8	7.030	-1.650	0.00	3.28	0503	. 1054	.0493
9	6.855	-1.650	ଡ. ଡଡ	3.59	0595	.1055	. 0493
10	6.690	-1.650	ଡ.ଡଡ	3.86	0705	. 1054	.0493
1.1	6.536	-1.650	ଡ. ଡଡ	4.09	0835	. 1051	. 0493
12	6.395	-1.650	Ø. ØØ	4.27	- <b>.</b> Ø986	. 1046	.0493
13	6.266	-1.650	ଡ. ଡଡ	4.40	1160	. 1041	. 0493
14	6.149	-1.650	ଉ. ଉହ	4.48	1358	.1035	. 0493
1.5	6.047	-1.650	ଡ. ଡଡ	4.51	1575	. 1029	. 0493
16	5.959	-1.650	ଡ. ଡଡ	4.49	1804	.1024	. 0493
17	5.887	-1.650	Ø. ØØ	4.44	2028	.1018	. 0493
18	5.830	-1.650	Ø. ØØ	4.37	2232	.1013	.0493
19	5.789	-1.650	ଡ. ଡଡ	4.30	2396	.1009	. 0493
20	5.765	-1.650	ଡ.ଡଡ	4.25	2502	.1006	. 0493
21	5.757	-1.650	Ø. ØØ	4.24	2539	.1005	. 0493

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-1.350	696.0	696.0	0.0	696.0	679.46	639.32
ē	8.259	-1.350	703.8	703.8	0.0	703.8		634.38
3	8.030	-1.350	718.5	718.6	0.0	718.6	669.78	626.96
4	7.816	-1.350	745.6	745.8	0.0	745.8	663.49	617.36
5	7.613	-1.350	740.2	740.5	0.0	740.5		612.49
6	7.417	-1.350	729.7	730.0	0.0	730.1	652.86	608.63
7	7.227	-1.350	718.2	718.6	0.0	718.7	648.33	605.45
ė	7.044	-1.350	712.7	713.2	0.0	713.2	644.42	602.19
9	6.869	-1.350	710.9	711.5	0.0	711.5	641.34	599.32
10	6.704	-1.350	713.2	713.8	0.0	713.8	639.25	596.94
1.1	6.551	-1.350	717.4	718.0	0.0	718.0	638.41	595.61
12	6.409	-1.350	717.9	718.4	0.0	718.5	637.65	594.78
1.3	6.279	-1.350	714.7	715.1	0.0	715.1	636.60	594.13
14	6.162	-1.350	711.8	712.1	Ø. Ø	712.1	635.64	593.52
15	6.057	-1.350	710.5	710.7	0.0		634.79	592.84
16	5.967	-1.350	710.6	710.8	Ø. Ø	710.8	634.21	592.26
17	5.893	-1.350	710.4	710.4	0.0	710.4	633.91	592.00
18	5.834	-1.350	709.7	709.7	0.0	709.7	633.68	591.85
19	5.791	-1.350	708.8	708.8	0.0	7Ø8.8	633.51	591.79
20	5.765	-1.350	708.1	708.0	0.0	708.1	633.41	591.77
21	5.757	-1.350	707.8	707.7	0.0	707.8	633.38	591.77
STRM-	RADIUS		STATIC	TOTAL	TOTAL	ABSOL.		ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TOTAL TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL. MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 29.34	PRESS. 23.69	PRESS. RATIO 1.9969	TEMP. RATIO 1.3099	VELDC. 696.0	MACH NUMBER .561	MACH NUMBER .5614
LINE NUMBER 1 2	8.500 8.259	PRESS. 29.34 29.52	PRESS. 23.69 23.68	PRESS. RATIO 1.9969 2.0090	TEMP. RATIO 1.3099 1.3021	VELOC. 696.0 703.8	MACH NUMBER .561 .570	MACH NUMBER .5614 .5699
LINE NUMBER 1 2 3	8.500 8.259 8.030	PRESS. 29.34 29.52 29.85	PRESS. 23.69 23.68 23.66	PRESS. RATIO 1.9969 2.0090 2.0312	TEMP. RATIO 1.3099 1.3021 1.2912	VELOC. 696.0 703.8 718.6	MACH NUMBER .561 .570 .585	MACH NUMBER .5614 .5699 .5853
LINE NUMBER 1 2 3 4	8.500 8.259 8.030 7.816	PRESS. 29.34 29.52 29.85 30.44	PRESS. 23.69 23.68 23.66 23.64	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791	VELOC. 696.0 703.8 718.6 745.8	MACH NUMBER .561 .570 .585 .612	MACH NUMBER .5614 .5699 .5853 .6121
LINE NUMBER 1 2 3 4 5	8.500 8.259 8.030 7.816 7.613	PRESS. 29.34 29.52 29.85 30.44 30.35	PRESS. 23.69 23.68 23.66 23.64 23.60	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685	VELOC. 696.0 703.8 718.6 745.8 740.5	MACH NUMBER .561 .570 .585 .612	MACH NUMBER .5614 .5699 .5853 .6121 .6102
LINE NUMBER 1 2 3 4 5	8.500 8.259 8.030 7.816 7.613 7.417	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12	PRESS. 23.69 23.68 23.66 23.64 23.60 23.55	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1	MACH NUMBER .561 .570 .585 .612 .610	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.259 8.030 7.816 7.613 7.417 7.227	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87	PRESS. 23.69 23.68 23.66 23.64 23.60 23.55 23.49	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7	MACH NUMBER .561 .570 .585 .612 .610 .604	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.71	PRESS. 23.69 23.68 23.66 23.64 23.60 23.55 23.49 23.43	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2	MACH NUMBER .561 .570 .585 .612 .610 .604 .596	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.62	PRESS. 23.69 23.68 23.66 23.64 23.55 23.49 23.43 23.35	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5	MACH NUMBER .561 .570 .585 .612 .610 .604 .596 .593	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704	PRESS.  29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.62 29.59	PRESS. 23.69 23.68 23.66 23.69 23.49 23.43 23.35 23.27	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139	TEMP. RATID 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8	MACH NUMBER .561 .570 .585 .612 .610 .604 .596 .593 .593	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927 .5927
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704 6.551	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.62  29.59  23.58	PRESS. 23.69 23.68 23.64 23.60 23.55 23.49 23.43 23.35 23.27 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2364 1.2308	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0	MACH NUMBER .561 .570 .585 .612 .610 .604 .596 .593 .593 .596	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927 .5927 .5958 .6000
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704 6.551 6.409	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.62  29.59  29.58  29.49	PRESS. 23.69 23.68 23.66 23.64 23.55 23.49 23.43 23.35 23.27 23.19 23.10	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2293	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0 718.5	MACH NUMBER .561 .570 .585 .612 .610 .604 .596 .593 .593 .596 .601	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927 .5958 .6000 .6008
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704 6.551 6.409 6.279	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.59  29.59  29.58  29.33	PRESS. 23.69 23.68 23.66 23.64 23.55 23.49 23.43 23.35 23.27 23.19 23.02	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2308 1.2273	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0 718.5 715.1	MACH NUMBER .561 .570 .585 .612 .604 .593 .593 .596 .600 .601	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927 .5928 .6000 .6008 .5983
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704 6.551 6.409 6.279 6.162	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.59  29.59  29.58  29.33  29.18	PRESS. 23.69 23.68 23.66 23.69 23.55 23.49 23.43 23.35 23.27 23.19 23.02 22.94	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2499 1.2423 1.2364 1.2308 1.2308 1.2273 1.2254	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.8 711.5 713.8 718.0 718.5 715.1 712.1	MACH NUMBER .561 .570 .585 .612 .610 .604 .593 .593 .596 .600 .601 .598	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927 .5958 .6000 .6008 .5983 .5961
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704 6.551 6.279 6.162 6.057	PRESS.  29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.59 29.33 29.18 29.08	PRESS. 23.69 23.68 23.64 23.60 23.55 23.49 23.43 23.27 23.19 23.02 22.94 22.88	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859 1.9791	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2499 1.2423 1.2364 1.2364 1.2308 1.2273 1.2273 1.2238	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0 718.5 715.1 710.8	MACH NUMBER .561 .570 .585 .612 .610 .604 .593 .593 .596 .601 .598 .595	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5927 .5958 .6000 .6008 .5961 .5953
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.259 8.030 7.816 7.613 7.417 7.827 6.869 6.704 6.551 6.409 6.162 6.057 5.967	PRESS.  29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.59 29.58 29.33 29.18 29.08	PRESS. 23.69 23.68 23.64 23.60 23.55 23.49 23.37 23.19 23.10 23.02 22.94 22.88	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859 1.9752	TEMP. RATID 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2384 1.2308 1.2273 1.2254 1.2281	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.8 711.5 713.8 718.0 718.5 718.1 710.8 710.8	MACH NUMBER .561 .570 .585 .612 .604 .593 .593 .596 .601 .596 .595 .595	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .59927 .59920 .6008 .5961 .5957
LINE NUMBER 1 2 3 4 5 6 7 8 9 9 11 12 13 14 15 16 17	8.500 8.259 8.030 7.816 7.613 7.417 7.227 7.044 6.869 6.704 6.551 6.409 6.279 6.967 5.967 5.893	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.62 29.58 29.58 29.38 29.08 29.08	PRESS. 23.69 23.68 23.64 23.69 23.43 23.47 23.19 23.19 23.98 22.88 22.80	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0322 2.0160 2.0139 2.0132 2.0071 1.9960 1.9960 1.9752 1.9720	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2273 1.2274 1.2227 1.2221	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 713.2 711.5 713.8 718.0 718.5 710.8 710.8 710.4	MACH NUMBER .570 .582 .610 .604 .593 .596 .601 .596 .595 .596	MACH NUMBER .5614 .5699 .5853 .6102 .6102 .6035 .5927 .5927 .5950 .6008 .5983 .5983 .5953 .5955
LINE NUMBER 1 234567890 11234567890 112345678	8.500 8.259 8.030 7.816 7.613 7.417 7.044 6.869 6.704 6.551 6.409 6.279 6.162 6.057 5.833	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.59  29.58  29.49  29.33  29.49  29.08  29.98	PRESS. 23.69 23.68 23.64 23.60 23.55 23.49 23.43 23.27 23.19 23.02 22.88 22.88 22.88	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0139 2.0139 1.9960 1.9859 1.9752 1.9752 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2499 1.2423 1.2364 1.2308 1.2308 1.2273 1.2273 1.2287 1.2287 1.2217	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0 718.5 719.8 710.8 710.8 710.7	MACH NUMBER .570 .585 .612 .614 .593 .593 .596 .601 .595 .595 .595	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5950 .6008 .5961 .5961 .5953 .5961 .5955 .5956
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.259 8.030 7.816 7.613 7.417 7.044 6.369 6.704 6.551 6.409 6.279 6.162 6.057 5.834 5.791	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.62  29.59  29.58  29.38  29.49  29.98  29.98  29.98	PRESS. 23.69 23.68 23.66 23.69 23.55 23.43 23.35 23.27 23.19 23.02 22.88 22.88 22.88 22.77	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0139 2.0071 1.9960 1.9859 1.9752 1.9752 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2499 1.2423 1.2364 1.2308 1.2308 1.2273 1.2273 1.2227 1.2221 1.2213	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0 718.5 719.8 710.8 710.8 710.8	MACH NUMBER .561 .570 .582 .612 .604 .593 .593 .596 .601 .596 .595 .596 .595 .595	MACH NUMBER .5614 .5699 .5853 .6102 .60035 .59927 .59900 .60008 .59961 .5953 .5953 .5953 .59549 .5942
LINE NUMBER 1 234567890 11234567890 112345678	8.500 8.259 8.030 7.816 7.613 7.417 7.044 6.869 6.704 6.551 6.409 6.279 6.162 6.057 5.833	PRESS.  29.34  29.52  29.85  30.44  30.35  30.12  29.87  29.59  29.58  29.49  29.33  29.49  29.08  29.98	PRESS. 23.69 23.68 23.64 23.60 23.55 23.49 23.43 23.27 23.19 23.02 22.88 22.88 22.88	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0139 2.0139 1.9960 1.9859 1.9752 1.9752 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2499 1.2423 1.2364 1.2308 1.2308 1.2273 1.2273 1.2287 1.2287 1.2217	VELOC. 696.0 703.8 718.6 745.8 740.5 730.1 718.7 713.2 711.5 713.8 718.0 718.5 719.8 710.8 710.8 710.7	MACH NUMBER .570 .585 .612 .614 .593 .593 .596 .601 .595 .595 .595	MACH NUMBER .5614 .5699 .5853 .6121 .6102 .6035 .5957 .5950 .6008 .5961 .5961 .5953 .5961 .5955 .5956

## FREE STATION 11.000 IS INDEX 15

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLCW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.350	ଡ. ଡଡ	0.00	<b>0.</b> 0000	. 1000	. 0539
2	8.259	-1.350	0.00	.51	0049	. 1028	.0539
3	8.030	-1.350	Ø. ØØ	. 95	0099	.1019	. 0539
4	7.816	-1.350	ଡ. ଉଡ	1.30	0148	.1033	.0539
5	7.613	-1.350	Ø. ØØ	1.58	0197	. 1040	. 0539
6	7.417	-1.350	ଡ.ଡଡ	1.84	0248	. 1044	.0539
7	7.227	-1.350	Ø. 00	2.06	0299	. 1047	.0539
8	7.044	-1.350	Ø. ØØ	2.24	0350	. 1050	.0539
9	6.869	-1.350	Ø. ØØ	2.35	0402	.1052	. 0539
10	6.704	-1.350	Ø. ØØ	2.40	0453	.1052	.0539
11	6.551	-1.350	0.00	2.37	0499	. 1051	. 0539
12	6.409	-1.350	Ø. ØØ	2.27	0535	. 1048	.0539
13	6.279	-1.350	Ø. ØØ	2.09	0553	. 1046	. 0539
14	6.162	-1.350	0.00	1.84	0546	. 1043	. 0539
1.5	6.057	-1.350	Ø. ØØ	1.53	0507	. 1042	. 0539
16	5.967	-1.350	ଡ.ଡଡ	1.18	0433	. 1040	. 0539
17	5.893	-1.350	0.00	. 82	0331	.1039	. 0539
18	5.834	-1.350	Ø. ØØ	.50	0215	.1039	. Ø539
19	5.791	-1.350	0.00	. 23	0106	.1038	.0539
20	5.765	-1.350	Ø. ØØ	.06	0028	.1038	. 0539
21	5.757	-1.350	Ø. ØØ	0.00	Ø. 0000	.1038	.0539

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.		STATIC TEMP.
1	8.500	-1.050	712.5	712.5	0.0	712.5	م79.46	637.39
ê	8.261	-1.050	719.8	719.8	0.0		675.43	632.48
3	8.034	-1.050	733.6	733.7	0.0		569.78	625.14
4	7.822	-1.050	759.2	759.3	0.0		663.49	615.67
~~ E	7.621	-1.050	752.7	752.9	0. Q		657.98	610.94
5 6	7. 426	-1.050	740.9				652.86	
7	7.426			741.2	Ø. Ø			607.27
8		-1.050	727.9	728.2	0.0	728.2	648.33	604.31
9	7.054	-1.050	720.5	720.8	0.0		644.42	601.28
	6.879	-1.050	716.5	716.8	0.0		541.34	598.68
10	6.715	-1.050	716.2	716.5	0.0		639.25	596.62
11	6.561	-1.050	717.6	717.9	0.0		638.41	595.62
12	6.419	-1.050	715.1	715.4	0.0	715.4		595.15
13	6.288	-1.050	708.8	709.0	0.0		636.60	594.86
14	6.169	-1.050	702.8	702.9	0.0		635.64	594.60
15	6.063	-1.050	698.8	698.8	0.0		634.79	594.23
16	5.971	-1.050	696.6	696.7			634.21	593.91
17	5.895	-1.050	694.7	694.7			633.91	593.83
18	5.835	-1.050	693.1	693.0	0.0		633.68	593.79
19	5.792	-1.050	691.7	691.7			633.51	593.78
20	5.766	-1.050	690.9	690.9	Ø. Ø		633.41	593.77
21	5.757	-1.050	690.6	690.6	Ø. Ø	690.6	633.38	593.77
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	NUMBER
1	8.500	29.34	23.44	1.9969	1.3099	712.5	. 576	.5756
2	8.261	29.52	23.43	2.0090	1.3021	719.8		.5837
3	8.034	29.85	23.43	2.0312	1.2912	733.7		. 5985
4	7.822	30.44	23.41	2.0718	1.2791	759.3	.624	.6241
5	7.621	30.35	23.39	2.0652	1.2685	752.9	.621	.6212
6	7.426	30.12	23.36	2.0500	1.2586	741.2	.613	.6134
7	7.236	29.87	23.34	2.0325	1.2499	728.2	. 604	-6041
8	7.054	29.71	23.30	2.0222	1.2423	720.8	.600	. 5995
9	6.879	29.62	23.27	2.0160		716.8		. 5975
10	6.715			2.0139	1.2324	716.5		.5983
1.1			23.19		1.2308	717.9		. 5999
12	6.419		23.15	2.0071	1.2293	715.4		. 5981
13	6.288	29.33	23.12	1.9960	1.2273	709.0	.593	.5928
14	6.169		23.09	1.9859	1.2254	703.0		.5879
15	6.063		23.07	1.9791	1.2238	698.9		. 5847
16	5.971		23.05	1.9752	1.2227	696.7		.5830
17			23.04	1.9720	1.2221	694.8	. 581	. 5814
	J. 077					レンファン	- UC) A	a (4) (2) (2 ***)
18	5.895 5.835							
18 19	5.835	28.94	23.04	1.9695	1.2217	693.1	.580	.5800
19	5.835 5.792	28.94 28.91	23.04 23.04	1.9695 1.9677	1.2217 1.2213	693.1 691.7	.580 .579	. 5800 . 5789
	5.835	28.94 28.91 28.90	23.04	1.9695 1.9677	1.2217 1.2213	693.1 691.7 690,9	.580 .579 .578	.5800

### FREE STATION 12.000 IS INDEX 16

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.050	Ø. ØØ	ଡ. ଉପ	Ø. ØØØØ	.0993	.0591
2	8.261	-1.050	0.00	. 44	0029	. 1000	. 0591
3	8.034	-1.050	ପ୍ର. ପଦ	.82	0057	. 1011	.0591
4	7.822	-1.050	Ø. ØØ	1.10	0081	.1026	. 0591
5	7.621	-1.050	ଡ. ଡଡ	1.32	0105	.1033	. 0591
6	7.426	-1.050	Ø. ØØ	1.51	0129	.1038	.0591
7	7.236	-1.050	ଏ. ଏହ	1.67	0153	.1042	.0591
8	7.054	-1.050	ଡ.ଡଡ	1.78	0176	. 1046	.0591
9	6.879	-1.050	ଡ. ଡଡ	1.84	0196	.1049	.0591
10	6.715	-1.050	ଏ.ହେଉ	1.82	0213	.1051	.0591
11	6.561	-1.050	ଡ. ଡଡ	1.75	Ø224	. 1051	. 0591
12	6.419	-1.050	Ø. 20	1.61	0226	.1050	.059:
13	6.288	-1.050	ଡ.ଡଡ	1.43	0218	.1049	. 0591
14	6.169	-1.050	ଡ. ହଡ	1.20	0198	.1048	. 0591
15	6.063	-1.050	ଡ. ଡଡ	. 95	0167	.1048	.0591
16	5.971	-1.050	Ø. ØØ	. 70	0129	. 1048	.0591
17	5.895	-1.050	ଡ.ଡଡ	. 46	0089	. 1047	. 0591
18	5.835	-1.050	ଡ. ଡଡ	. 27	0053	. 1047	.0591
19	5.792	-1.050	Ø. ØØ	.12	0024	.1047	.0591
20	5.766	-1.050	0.00	. Ø3	0006	. 1047	. 0591
21	5.757	-1.050	Ø. ØØ	0.00	Ø. ØØØØ	. 1047	. Ø591

#### FREE STATION 13.000 IS INDEX 17

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	750	728.9	728.8	0.0	728.9	579.46	635, 44
2	8.264	750	735.7	735.7	0.0	735.7	675.43	630.57
చె	8.038	750	748.4	748.5	0.0	748.5	669.78	623.32
4	7.827	750	772.4	772.5	0.0	772.5	663.49	613.99
5	7.627	750	764.8	764.9	0.0	765.0	657.98	609.43
ь	7. 433	750	751.6	751.8	0.0	751.9	652.86	605.95
7	7.245	75Ø	737.0	737.3	0.0		648.33	603.21
8	7.062	750	727.7	727.9	0.0		644.42	600.43
9	6.888	- <b>.</b> 750	721.5	721.8	0.0		641.34	
10	6.723	750	718.9	719.2	ଏ. ଏ		639.25	596.30
11	6.569	750	717.9	718.2	0.0		638.41	595.58
12	6.426	750	713.2	713.4	0.0		637.65	595.39
13	6.294	750	704.7	704.8	0.0	704.B	636.60	
14	6.174	750	696.8	696.9	0.0		635.64	
15	6.067	750	691.3	691.4			634.79	
16	5.975	750	688.2	688.2	0.0		634.21	594.88
17	5.897	750	685.6	685.6	0.0	685.6	633.91	594.88
18	5.836	750	683.6	683.6	0.0	683.6	633.68	
19 20	5.792	750	582.1	682.1	0.0		633.51	
21	5.766	750	681.2	681.2			633.41	
E-7	5.757	750	681.0	680.9	ଡ.ଡ	681.0	633.38	594.87
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	ABSOL. VELOC.	ABSOL. MACH	ABSOL. MACH
LINE NUMBER								MACH
LINE NUMBER 1	8.500	PRESS. 29.34	PRESS. 23.19	PRESS.	TEMP.		MACH	MACH
LINE NUMBER 1 2	8.500 8.264	PRESS. 29.34 29.52	PRESS. 23.19 23.19	PRESS. RATIO 1.9969 2.0090	TEMP. RATIO 1.3099 1.3021	VELOC.	MACH NUMBER	MACH NUMBER .5897
LINE NUMBER 1 2 3	8.500 8.264 8.038	PRESS. 29.34 29.52 29.85	PRESS. 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312	TEMP. RATIO 1.3099 1.3021 1.2912	VELOC. 728.9 735.7 748.5	MACH NUMBER .590	MACH NUMBER .5897
LINE NUMBER 1 2 3 4	8.500 8.264 8.038 7.827	PRESS. 29.34 29.52 29.85 30.44	PRESS. 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791	VELOC. 728.9 735.7 748.5 772.5	MACH NUMBER .590 .598	MACH NUMBER . 5897 . 5975
LINE NUMBER 1 2 3 4 5	8.500 8.264 8.038 7.827 7.627	PRESS. 29.34 29.52 29.85 30.44 30.35	PRESS. 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685	728.9 735.7 748.5 772.5 765.0	MACH NUMBER .590 .598 .611 .636	MACH NUMBER .5897 .5975 .6114 .6358
LINE NUMBER 1 2 3 4 5	8.500 8.264 8.038 7.827 7.627 7.433	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586	728.9 735.7 748.5 772.5 765.0 751.9	MACH NUMBER .590 .598 .611 .636 .632	MACH NUMBER .5897 .5975 .6114 .6358 .6320
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.264 8.038 7.827 7.627 7.433 7.245	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87	PRESS. 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586	VELOC.  728.9  735.7  748.5  772.5  765.0  751.9  737.3	MACH NUMBER .590 .598 .611 .636 .632 .623	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71	PRESS. 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499	VELOC.  728.9  735.7  748.5  772.5  765.0  751.9  737.3  727.9	MACH NUMBER .590 .598 .611 .636 .632 .623 .612	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71	PRESS. 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2423 1.2423 1.2364	VELOC.  728.9  735.7  748.5  772.5  765.0  751.9  737.3  727.9  721.8	MACH NUMBER .590 .598 .611 .636 .632 .623 .612 .606	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122 .6059
LINE NUMBER 1 2 3 4 5 6 7 8 9	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.71 29.62 29.59	PRESS. 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2324	VELOC.  728.9  735.7  748.5  772.5  765.0  751.9  737.3  727.9  721.8  719.2	MACH NUMBER .590 .598 .611 .636 .632 .623 .612 .606 .601	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122 .6059 .6019
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723 6.569	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.62 29.59 29.58	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308	VELOC.  728.9  735.7  748.5  772.5  765.0  751.9  737.3  727.9  721.8  719.2  718.2	MACH NUMBER .590 .598 .611 .636 .632 .623 .612 .606 .601	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122 .6059 .6019 .6002
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723 6.569 6.426	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.49	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2293	VELOC.  728.9  735.7  748.5  772.5  765.0  751.9  737.3  727.9  721.8  719.2  718.2  713.4	MACH NUMBER .598 .611 .636 .632 .623 .612 .606 .601 .600	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122 .6059 .6019 .6002 .5963
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723 6.569 6.426 6.294	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.58 29.49 29.33	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2304 1.2308 1.2293 1.2273	VELOC.  728.9 735.7 748.5 772.5 765.0 751.9 737.3 727.9 721.8 719.2 718.2 718.2 713.4 704.8	MACH NUMBER .590 .598 .611 .636 .632 .612 .606 .601 .600 .596	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122 .6059 .6046 .6002 .5963 .5891
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723 6.569 6.426 6.294 6.174	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.58 29.18	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2308 1.2308 1.2273 1.2254	VELOC.  728.9  735.7  748.5  765.0  751.9  737.3  727.9  721.8  719.2  718.2  718.2  704.8  697.0	MACH NUMBER .590 .598 .611 .636 .632 .612 .606 .606 .596 .589	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6122 .6059 .6006 .6002 .5963 .5891
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723 6.569 6.426 6.294 6.174 6.067	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.87 29.59 29.58 29.58 29.49 29.33 29.48	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859 1.9791	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2238	VELOC.  728.9  735.7  748.5  765.0  751.9  737.3  727.9  721.8  719.2  718.2  718.2  704.8  697.0  691.4	MACH NUMBER .598 .611 .636 .632 .623 .602 .600 .596 .599 .583	MACH NUMBER .5897 .5975 .6114 .6358 .6320 .6229 .6019 .6006 .6002 .5963 .5826 .5780
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.723 6.569 6.426 6.294 6.174 6.067 5.975	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.62 29.58 29.58 29.58 29.49 29.38 29.49 29.08	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0971 1.9960 1.9859 1.9791	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2273 1.2254 1.2238 1.227	VELOC.  728.9 735.7 748.5 772.5 765.0 751.9 737.3 727.9 721.8 719.2 718.2 718.2 718.2 718.2 697.0 691.4 688.2	MACH NUMBER .598 .611 .636 .632 .602 .602 .600 .596 .583 .578	MACH NUMBER .5875 .6114 .6358 .6329 .6122 .6059 .6009 .6002 .5963 .5891 .5826 .5780 .5755
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.888 6.723 6.569 6.426 6.294 6.174 6.067 5.975	PRESS. 29.34 29.52 29.85 30.44 30.12 29.62 29.58 29.58 29.58 29.29 29.28 29.08	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0133 2.0132 2.0132 2.0171 1.9960 1.99791 1.9752 1.9720	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2364 1.2308 1.2273 1.2254 1.2254 1.2254 1.2227 1.2221	VELOC.  728.9 735.7 748.5 772.5 765.0 751.9 737.3 727.9 721.8 719.2 718.2 718.2 718.2 718.2 697.0 691.4 688.2 685.6	MACH NUMBER .598 .611 .636 .632 .602 .602 .600 .596 .589 .575 .573	MACH NUMBER .5875 .6114 .6358 .6329 .6229 .6059 .6002 .5063 .5896 .5786 .5785 .5733
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.723 6.569 6.426 6.294 6.174 6.975 5.897 5.836	PRESS. 29.34 29.52 30.44 30.35 30.12 29.69 29.58 29.58 29.58 29.38 29.49 29.38 29.49 29.49 29.49	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859 1.9752 1.9750 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2324 1.2324 1.2328 1.2273 1.2238 1.2238 1.2238 1.2237 1.2237	VELOC. 728.9 735.7 748.5 765.0 751.9 737.3 727.9 721.8 719.2 718.2 718.2 718.4 704.8 697.0 691.4 688.2 685.6 683.6	MACH NUMBER .590 .598 .611 .636 .632 .612 .606 .601 .600 .596 .583 .578 .573 .573	MACH NUMBER .5897 .5975 .6114 .6358 .6329 .6122 .6019 .6002 .5006 .5963 .5826 .5785 .5785 .5716
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.264 8.038 7.627 7.627 7.433 7.245 7.062 6.723 6.569 6.426 6.294 6.174 6.975 5.897 5.836 5.792	PRESS. 29.34 29.52 29.85 30.44 30.35 30.12 29.69 29.58 29.58 29.38 29.49 29.38 29.49 29.49 29.49 29.49 29.49	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0160 2.0139 2.0132 2.0132 2.0171 1.9960 1.9752 1.9752 1.9695 1.9677	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2499 1.2423 1.2364 1.2324 1.2308 1.2273 1.2254 1.2238 1.2277 1.2281 1.2217	VELOC.  728.9 735.7 748.5 765.0 751.9 737.3 727.9 721.8 719.2 718.2 718.2 718.4 704.8 697.0 691.4 688.2 683.6 683.6 682.1	MACH NUMBER .598 .611 .636 .632 .623 .612 .606 .601 .600 .589 .583 .575 .573 .572	MACH NUMBER .587 .5975 .6114 .6358 .6329 .6122 .6019 .6002 .6002 .5096 .5096 .5753 .5773 .5774
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.264 8.038 7.827 7.627 7.433 7.245 7.062 6.723 6.569 6.426 6.294 6.174 6.975 5.897 5.836	PRESS. 29.34 29.52 30.44 30.35 30.12 29.69 29.58 29.58 29.58 29.38 29.49 29.38 29.49 29.49 29.49	PRESS.  23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19 23.19	PRESS. RATIO 1.9969 2.0090 2.0312 2.0718 2.0652 2.0500 2.0325 2.0222 2.0160 2.0139 2.0132 2.0071 1.9960 1.9859 1.9752 1.9750 1.9695	TEMP. RATIO 1.3099 1.3021 1.2912 1.2791 1.2685 1.2586 1.2499 1.2423 1.2324 1.2324 1.2328 1.2273 1.2238 1.2238 1.2238 1.2237 1.2237	VELOC. 728.9 735.7 748.5 765.0 751.9 737.3 727.9 721.8 719.2 718.2 718.2 718.4 704.8 697.0 691.4 688.2 685.6 683.6	MACH NUMBER .590 .598 .611 .636 .632 .612 .606 .601 .600 .596 .583 .578 .573 .573	MACH NUMBER .5897 .5975 .6114 .6358 .6329 .6122 .6019 .6002 .5006 .5963 .5826 .5785 .5785 .5716

#### FREE STATION 13.000 IS INDEX 17

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	750	Ø. ØØ	ଡ. ଡଡ	ଡ. ଉଚ୍ଚତ୍ର	. 0985	.0643
2	8.264	750	Ø. ØØ	. 42	Ø. ØØØØ	.0992	.0643
3	8. Ø38	750	Ø. ØØ	. 77	Ø. ØØØØ	. 1004	. 0643
4	7.827	750	Ø. ØØ	1.03	Ø. ØØØØ	.1019	. 0643
5	7.627	750	ହ. ହହ	1.23	0.0000	.1027	. Ø643
6	7. 433	750	Ø. ØØ	1.40	Ø. ØØØØ	.1033	.0643
7	7.245	750	Ø. ØØ	1.54	<b>0.0000</b>	.1038	.0643
8	7.062	75Ø	Ø. ØØ	1.63	Ø. ØØØØ	.1042	.0643
9	6.888	750	0.00	1.67	<b>0.0000</b>	. 1046	.0643
10	6.723	750	0.00	1.64	Ø. ØØØØ	.1050	. 0643
11	6.569	750	ଉ. ଉଷ	1.55	<b>0.0000</b>	. 1051	. Ø643
12	6.426	750	୍ ଡ.ଡଡ	1.42	Ø. ØØØØ	.1051	.0643
13	6.294	750	Ø. ØØ	1.24	Ø. ØØØØ	. 1051	<b>.</b> Ø643
14	6.174	750	0.00	1.03	Ø. ØØØØ	.1051	.0643
15	6.067	750	0.00	. 80	Ø. ØØØØ	.1052	. 0643
16	5.975	750	0.00	.58	Ø. ØØØØ	.1052	.0643
17	5.897	750	0.00	. 39	Ø. ØØØØ	.1052	. Ø643
18	5.836	750	0.00	. 22	0.0000	.1052	. Ø643
19	5.792	750	Ø. ØØ	. 10	<b>0.0000</b>	. 1052	. 0643
20	5.766	750	0.00	.03	Ø. ØØØØ	.1052	. 0643
21	5.757	750	Ø. ØØ	0.00	ଡ. ଡଡଡଡ	.1052	. Ø643

870901004 - PBS ROTOR #1 AL RODYNAMIC ANALYSIS - THRU BLADE

THE MAXIMUM ROTOR D-FACTOR .559 OCCURED AT STAGE 1 ON STREAMLINE 2. THE MAXIMUM VANE D-FACTOR .466 OCCURED AT STAGE 1 ON STREAMLINE 21.

Control of the second of the s

THE MAXIMUM MERIDINAL MACH NO. .775 OCCURED AT STATION 6 ON STREAMLINE 4.

#### PERFORMANCE SUMMARY FOR 870901004:

		SPEC FLOW	FLOW RATE	CORR FLOW		-5 T A	G E	VANE	CN	MULATI	VE
		IN	IN	IN	b/b	ADIA EFF.	POLY EFF.	TO VANE	b\b	ADIA EFF.	POLY EFF.
REFERENC	Œ		60.07	60.09							
ROTOR 1	Ĺ	42.25	60.07	60.09	2.103	91.9	92.7	92.7	2.103	91.9	92.7
STAGE 1	Ĺ	28.99	60.07	32.04	2.022	86.5	87.7		2.022	86.5	87.7
				MASS A	VERAGED	ROTOR	VANE	RESET			
		EN	TROPY	TOTAL	TOTAL	TIP	HUB	ANGLE			
			RISE	PRESS	TEMP	MACH	MACH				
				-URE	-ATURE	NO.	NO.				
REFERENC	CE			14.69	518.71						
ROTOR 1	1		1.7	30.90	652.17	.81					
STAGE 1	1		2.8	29.71	652.19		.66				

CORRECTED RPM 20191. FLOW COEF. .238 OVERALL ADIA. EFF. 86.47 PT COEF. .778 WORK COEF. .900 FLOW 60.07 RPM 20190.9 PRESSURE RATIO 2.022 EFFICIENCY 86,47

APPENDIX D

The same of the

# 870901005 - PBS ROTOR #1 AERODYNAMIC ANALYSIS - THRU-BLADE

FREE	STATION	1.000	IS	INDEX	1

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.		ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	13.300		177.5	≥35.7	0.0	235.7	518.71	514.08
2	12.536		183.2	235.7	0.0	235.7	518.71	514.08
3	11.790		188.9	235.7	0.0	235.7	518.71	514.08
4	11.050		194.3	235.7	0.0	235.7	518.71	514.08
5	10.346		199.5	235.7	0.0	235.7	518.71	514.08
6	9.645		204.4	235.7	0.0	235.7	518.71	514.08
7		-18.450	209.0	235.7	0.0	235.7	518.71	514.08
8		-18.45Ø	213.1	235.7	0.0	235.7	518.71	514.08
9		-18.450	216.9	235.7	0.0	235.7	518.71	514.08
10		-18.450	220.3	235.7	Ø. Ø	235.7	518.71	514.08
11		-18.450	223.3	235.7	0.0	235.7	518.71	514.08
12		-18.450	226. Ø	235.7	0.0	235.7	518.71	514.08
13		-18.450	228.2	235.7	Ø. Ø	235.7	518.71	514.08
14		-18.450	230.2	235.7	0.0	235.7	518.71	514.08
15		-18.450	231.8	235.7	0.0	235.7	518.71	514.08
16		-18.450	233.0	235.7	0.0	235.7	518.71	514.08
17		-18.450	234. Ø	235.7	0.0	235.7	518.71	514.08
18		-18.450	234.8	235.7	0.0	235.7	518.71	514.08
19		-18.450	235.3	235.7	Ø. Ø	235.7	518.71	514.08
20		-18.450	235.6	235.7	0.0	235.7	518.71	514.08
21	. 000 -	-18.450	235.7	235.7	Ø. Ø	235.7	518.71	514.08
STRM-	RADIUS	TOTAL	STATIC	TOTO	7070			
LINE	MADIOO	PRESS.	PRESS.	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
NUMBER		1-1/P*(T) P	PRESS.	PRESS. RATIO	TEMP.	VELOC.	MACH	MACH
1	13.300	14.69	14.24	1.0000	RATIO		NUMBER	
ē	12.536	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
3	11.790	14.69	14.24	1.0000	1.0000 1.0000	235.7	.212	.2120
4	11.060	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
5	10.346	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
	9.645	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
7	8.957	14.69	14.24	1.0000	1.0000	235.7 235.7	.212	.2120
8	8.280	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
9	7.612			1.0000		235.7	.212 .212	.2120
10	6.953	14.65	14.24	1.0000	1.0000	235.7		.2120
11	6.301	14.69	14.24	1.0000	1.6000	235.7	.212 .212	.2120
12	5.656	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
13	5.016	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
14	4.380	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
15	3.748	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
16	3.119	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
17	2.493	14.69	14.24	1.0000	1.0000	235.7	.212	.2120 .2120
18	1.868	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
19	1.245	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
20	.622	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
21	. ଉପପ	14.69	14.24	1.0000	1.0000	235.7	.212	.2120
					<del></del>		a L., A J	· los de fin Ci

#### FREE STATION 1.000 IS INDEX 1

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	13.300 -18.450	0.00	-41.16	ହ. ଉଦ୍ବହ	. 0748	ଡ. ଡଡଡଡ
2	12.536 -18.450	0.00	-38.99	Ø. ØØØØ	. 0748	Ø. QQQQ
3	11.790 -18.450	0.00	-36.75	<b>0.</b>	. 0748	ଉ. ଉପଦପ
4	11.060 -18.450	0.00	-34,48	ଡ. ଉପଡଡ	. Ø748	Ø. ØØØØ
5	10.346 -18.450	0.00	-32.18	<b>0.</b>	.0748	<b>0. 0000</b>
6	9.645 -18.450	0.00	-29.88	Ø. ØØØØ	.0748	<b>0.0000</b>
7	8.957 -18.450	0.00	-27.58	<b>0.</b>	. Ø74B	<b>0.000</b> 0
8	8.280 -18.450	0.00	-25.29	ଡ. ଡଡଡଡ	. 0748	<b>0.000</b> 0
9	7.612 -18.450	0.00	-23.04	<b>ଡ. ଡଡଡ</b> ଡ	.0748	ହ. ଉପପଦ
10	6.953 -18.450	0.00	-20.83	Ø. ØØØØ	. 0748	0.0000
11	6.301 -18.450	0.00	-18.66	<b>0.0000</b>	. 0748	0.0000
12	5.656 -18.450	0.00	-16.54	ଡ. ଡଡଡଡ	.0748	Ø. ØØØØ
13	5.016 -18.450	Ø. ØØ	-14.48	Ø. 0000	.0748	<b>0.0000</b>
14	4.380 -18.450	0.00	-12.48	Ø. ØØØØ	.0748	Ø. ØØØØ
15	3.748 -18.450	0.00	-10.55	<b>0.0000</b>	. 0748	Ø. ØØØØ
16	3.119 -18.450	0.00	-8.67	0.0000	.0748	Ø. ØØØØ
17	2.493 -18.450	0.00	-6.86	Ø. ØØØØ	. 0748	Ø. QØQQ
18	1.868 -18.450	0.00	-5.10	Ø. ØØØØ	. 0748	Ø. ØØØØ
19	1.245 -18.450	ଡ. ଡଡ	-3.38	Ø. ØØØØ	. Ø74B	Ø. ØØØØ
20	.622 -18.450	0.00	-1.69	Ø. ØØØØ	. 0748	Ø. ØØØØ
21	.000 -18.450	0.00	0.00	Ø. ØØØØ	.0748	<b>0.0000</b>

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
	9.480 -	ተ <i>ሉ መ</i> ከተ	442.7	527.6	0.0	527.6	518.71	495.51
1	9.031 -		445.7	517.6	0.0	517.6		496.38
2 3	8.585 -		445.8	506.1	0.0	506.1		497.37
	8.139 -		443.6	493.9	0.0	493.9		498.38
4			440.0	481.5	0.0	481.5	518.71	499.39
5	7.694 -		435.2	469.1	0.0	469.1	518.71	500.37
6	7.246 -		433.2 429.7	457.1	0.0	457.1	518.71	501.30
7	6.796 -		423.5	445.4	0.0	445.4	518.71	502.17
8	6.343 -		417.1	434.3	0.0	434.3	518.71	502.99
9	5.886 -			423.6	0.0	423.6	518.71	503.76
10	5.424 -		410.3	413.5	0.0	413.5	518.71	504.46
11	4.958 -		403.4	403.9	0.0	403.9	518.71	505.12
12	4.486 -		396.5	394.8	Q. Q	394.B	518.71	505.72
13	4.009 -		389.6	386.4	Ø. Ø	386.4	518.71	506.27
14	3.527 -		382.8	378.6	Ø. Ø	378.6	518.71	506.77
15	3.039 -		376.3	371.4	0.0 0.0	371.4	518.71	507.21
16	2.545 -		370.0		Ø. Ø	365.0	518.71	507.61
17	2.045 -		364.3	365.0 359.5	Ø. Ø	359.5	518.71	507.94
18	1.540 -		359.1		Ø. Ø	355.0	518.71	508.21
19	1.030 -		354.9	355.0	Ø. Ø	352.0	518.71	508.39
20		-14.855	351.9	352.0	0.0	350.8	518.71	508.46
21	.000 -	-14.900	350.8	350.8	W. W	ವಿಚಳ ಕ	710.11	Geor To
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.		ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	
1	9.480	14.69	12.52	1.0000	1.0000	527.6	. 483	. 4834
2	9.031	14.69	12.60	1.0000	1.0000	517.6	. 474	. 4738
3	8.585	14.69	12.69	1.0000	1.0000	506.1	. 463	. 462B
4	8.139	14.69	12.78	1.0000	1.0000	493.9	. 451	.4512
5	7.694	14.69	12.87	1.0000	1.0000	481.5	. 439	. 4394
6	7.246	14.69	12.96	1.0000	1.0000	469.1	. 428	. 4277
7	6.796	14.69	13.04	1.0000	1.0000	457.1	.416	. 4164
8	6.343	14.69	13.12	1.0000	1.0000	445.4	. 405	. 4054
9	5.886	14.69	13.20	1.0000	1.0000	434.3	. 395	. 3949
10	5.424	14.69	13.27	1.0000	1.0000	423.6	. 385	.3849
11	4.958	14.69	13.33	1.0000	1.0000	413.5	. 375	. 3754
12	4.486	14.69	13.39	1.0000	1.0000	403.9	. 366	. 3665
13	4.009	14.69	13.45	1.0000	1.0000	394. B	. 358	. 3581
14	3.527	14.69	13.50	1.0000	1.0000	386.4	.350	.3502
15	3.039	14.69	13.55	1.0000	1.0000	378.6	. 343	.3430
16	2.545	14.69	13.59	1.0000	1.0000	371.4	. 336	.3363
17	2.045	14.69	13.62	1.0000	1.0000	365.0	.330	.3304
18	1.540	14.69	13.66	1.0000	1.0000	359.5	. 325	.3253
19	1.030	14.69	13.68	1.0000	1.0000	355.0	.321	.3212
20	.516	14.69	13.70	1.0000	1.0000	352.0	.318	.3184
21	. 000	14.69	13.70	1.0000	1.0000	350.8	.317	.3172

#### FREE STATION 2.000 IS INDEX 2

STRM-	RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		ANGLE	SLOPE			
1	9.480 -14.081	0.00	-32.97	.0952	.0682	Ø. ØØØØ
2	9.031 -14.119	Ø. ØØ	-30.54	.0982	.0685	<b>0.</b>
3	8.585 -14.158	0.00	-28.26	. 0984	.0689	Ø. ØØØØ
4	8.139 -14.196	0.00	-26.07	.0967	.0692	<b>0. 0000</b>
5	7.694 -14.235	0.00	-23.96	.0936	. Ø696	Ø. ØØØØ
6	7.246 -14.274	0.00	-21.93	. 0895	.0699	<b>0. 0000</b>
7	6.796 -14.313	0.00	-19.95	.0848	.0702	<b>0.0000</b>
8	6.343 -14.352	Ø. ØØ	-18.04	. 0797	. 0705	<b>0.0000</b>
9	5.886 -14.391	Ø. ØØ	-16.18	.0743	.0708	<b>0. 0000</b>
10	5.424 -14.431	Ø. ØØ	-14.38	.0688	.0711	ଡ. ଉଉଉଡ
11	4.958 -14.471	0.00	-12.64	.0633	.0713	Ø. ØØØØ
12	4.486 -14.512	ଡ. ଡଡ	-10.96	. 0579	.0715	ଡ. ହଉହର
13	4.009 -14.553	0.00	-9.34	. 0525	.0718	Ø. ØØØØ
14	3.527 -14.595	0.00	-7.78	.0472	.0720	ଡ. ଉପଉପ
15	3.039 -14.637	0.00	-6.30	.0420	.0721	0.0000
16	2.545 -14.680	0.00	-4.90	.0367	.0723	0.0000
17	2.045 -14.723	0.00	3.60	.0312	.0724	<b>0.0000</b>
18	1.540 -14.767	Ø. ØØ	-2.41	. 0254	.0726	<b>0.0000</b>
19	1.030 -14.811	0.00	-1.37	.0187	.0727	Ø. 0000
20	.516 -14.855	Ø. ØØ	57	.0103	.0727	<b>0.</b> 0000
21	.000 -14.900	0.00	0.00	ଡ. ଉପଉପ	.0727	0.0000

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELOC.		STATIC TEMP.
1 2 3	8.960 -: 8.520 -:	12.743	568.5 565.2	598.8 588.3	0. 0 0. 0	598.8 588.3	518.71 518.71	488.82 489.86
ა 4	8.085 -: 7.653 -:		560.9 555.8	578.6	0.0	578.6	518.71	490.81
5	7.833 -		550.1	569.2 560.0	0.0 0.0	569.2 560.0	518.71 518.71	491.71 492.57
6	6.795 -		543.6	550.8	Ø. Ø	550.8	518.71	493.42
7	6.368 -		536.5	541.5		541.5	518.71	494. 27
8	5.942 -		528.5	531.8	0.0	531.8	518.71	495.14
9	5.516 -	12.005	519.7	521.6		521.6	518.71	496.04
10	5.089 -		509.8	510.7		510.7	518.71	496.97
11	4.661 -		498.8	499. 1	Ø. Ø	499.1	518.71	497.95
12	4.232 -		486.4	486.5	0.0	486.5	518.71	498.99
13	3.800 -		472.5	472.6	Ø. Ø	472.6	518.71	500.09
14	3.365 -		456.8	457.3		457.3	518.71	501.28
15	2.925 -		438.9	440.2		440.2	518.71	502.56
16	2.479 -		418.0	420.8	0.0	420.8	518.71	503.95
17	2.025 -		393.2	398.2		398.2	518.71	505.49
18 19	1.559 -		362.5	371.3	0.0	371.3	518.71	507.22
50	1.074 - .556 -		322.6	338.0		338.0	518.71	509.19
21	.000 -		267.9 196.7	296.2	Ø. Ø	296.2	518.71	511.40
bes als	. WWW	TRI* DORI	120. /	249.1	ଡ. ଡ	249.1	518.71	513.54
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER				RATIO	RATIO		NUMBER	NUMBER
1	8.960	14.69	11.94	1.0000	1.0000	598.8	. 552	. 5524
2 3	8.520	14.69	12.03	1.0000	1.0000	588.3	.542	.5421
3	8.085	14.69	12.11	1.0000	1.0000	578.6	. 533	. 5326
4	7.653	14.69	12.19	1.0000	1.0000	569.2	.523	. 5235
5	7.223	14.69	12.26	1.0000	1.0000	560.0	.515	. 5146
6	6.795	14.69	12.34	1.0000	1.0000	550.8	.506	.5057
7	6.368	14.69	12.41	1.0000	1.0000	541.5	. 497	. 4967
8 9	5.942	14.69	12.49	1.0000	1.0000	531.8	- 487	. 4874
10	5.516	14.69	12.57	1.0000	1.0000		. 478	
11	5.089	14.69	12.65	1.0000	1.0000	510.7	. 467	.4672
12	4.661 4.232	14.69 14.69	12.74 12.83	1.0000	1.0000	499.1	• 456 • • • •	. 4561
13	3.800	14.69	12.93	1.0000 1.0000	1.0000 1.0000	486.5	• 444 471	. 4441
14	3. 365	14.69	13.04	1.0000	1.0000	472.6 457.3	. 431	.4310
15	2. 925	14.69	13.16	1.0000	1.0000	440.2	.417 .401	.4166 .4005
16	2.479	14.69	13.28	1.0000	1.0000	420.8	.382	. 3823
17	2.025	14.69	13.43	1.0000	1.0000	398.2	. 361	.3612
18	1.559	14.69	13.59	1.0000	1.0000	371.3	. 336	. 3362
19	1.074	14.69	13.77	1.0000	1.0000	338.0	. 305	. 3055
20	. 556	14.69	13.98	1.0000				
		14.00	13.30	1.0000	1.0000	<i></i>	, ლნ/	・こし/し
21	. 000	14.69	14.19	1.0000	1.0000	296.2 249.1	, 267 . 224	.2671 .2242

#### FREE STATION 3.000 IS INDEX 3

RADIUS AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
COORD.	FLOW	LINE	TURE	ITY	KAGE
	ANGLE	SLOPE			
8.960 -12.851	0.00	-18.32	.1067	. Ø659	ଡ. ଡଡଡଡ
8.520 -12.743	0.00	-16.12	. Ø948	.0663	<b>0.0</b> 000
8.085 -12.636	ଡ. ଡଡ	-14.19	.0865	. Ø666	Ø. ØØØØ
7.653 -12.530	0.00	-12.44	.0807	.0669	Ø. ØØØØ
7.223 -12.424	ଡ. ଡଡ	-10.81	.0766	.0672	<b>0.0000</b>
6.795 -12.319	0.00	-9.27	.0739	.0675	0.0000
6.368 -12.214	0.00	-7.78	.0722	.0678	<b>0.</b>
5.942 -12.109	Ø. ØØ	-6.32	.0715	.0681	Ø. 0000
5.516 -12.005	0.00	-4.87	.0717	. Ø684	<b>ଉ. ଉପଉପ</b>
5.089 -11.900	0.00	-3.42	.0729	. Ø687	Ø. ØØØØ
4.661 -11.795	Ø. ØØ	-1.95	. 0750	. Ø691	<b>0. ଉପଉପ</b>
4.232 -11.689	0.00	45	.0783	. Ø694	Ø. ØØØØ
3.800 -11.583	0.00	1.10	.0831	. Ø698	ଉ. ଉଉଉଉ
3.365 -11.476	0.00	2.75	. 0899	.0702	<b>0.0000</b>
2.925 -11.368	ହ. ହହ	4.56	. 0995	. 0707	<b>0.0000</b>
2.479 -11.259	0.00	6.63	.1134	.0711	ଡ. ଡଡଡଡ
2.025 -11.147	Ø. ØØ	9.14	.1337	. 0717	<b>0.0000</b>
1.559 -11.033	0.00	12.47	.1640	.0723	ଡ. ଉତ୍ତତ
1.074 -10.914	Ø. ØØ	17.35	.2091	. 0730	ଡ. ଉଉଉଉ
.556 -10.787	0.00	25.25	.2680	.0738	<b>0.000</b> 0
.000 -10.650	0.00	37.85	.2963	. 0746	Ø. ØØØØ
	COORD.  8.960 -12.851 8.520 -12.743 8.085 -12.636 7.653 -12.530 7.223 -12.424 6.795 -12.319 6.368 -12.214 5.942 -12.109 5.516 -12.005 5.089 -11.900 4.661 -11.795 4.232 -11.689 3.800 -11.583 3.365 -11.476 2.925 -11.368 2.479 -11.259 2.025 -11.147 1.559 -11.033 1.074 -10.914 .556 -10.787	COORD. FLOW ANGLE  8.960 -12.851	COORD. FLOW LINE ANGLE SLOPE  8.960 -12.851 0.00 -18.32  8.520 -12.743 0.00 -16.12  8.085 -12.636 0.00 -14.19  7.653 -12.530 0.00 -12.44  7.223 -12.424 0.00 -10.81  6.795 -12.319 0.00 -7.78  5.942 -12.109 0.00 -7.78  5.942 -12.109 0.00 -6.32  5.516 -12.005 0.00 -4.87  5.089 -11.900 0.00 -3.42  4.661 -11.795 0.00 -1.95  4.232 -11.689 0.0045  3.800 -11.583 0.00 1.10  3.365 -11.476 0.00 2.75  2.925 -11.368 0.00 4.56  2.479 -11.259 0.00 6.63  2.025 -11.147 0.00 9.14  1.559 -11.033 0.00 12.47  1.074 -10.914 0.00 17.35  .556 -10.787 0.00 25.25	COORD. FLOW LINE SLOPE  8.960 -12.851	COORD.         FLOW ANGLE SLOPE         TURE SLOPE           8. 960 -12.851         0.00 -18.32         .1067 .0659           8. 520 -12.743         0.00 -16.12 .0948 .0663         .0663           8. 085 -12.636         0.00 -14.19 .0865 .0666         .0669           7. 653 -12.530         0.00 -12.44 .0807 .0669         .0669           7. 223 -12.424 .000 -10.81 .0766 .0672         .0739 .0675           6. 368 -12.214 .000 -9.27 .0739 .0675         .0678 .0722 .0678           5. 942 -12.109 .000 -6.32 .0715 .0681         .0681           5. 516 -12.005 .000 -4.87 .0717 .0684         .089 -11.900 .000 -3.42 .0729 .0687           4. 661 -11.795 .000 .000 -3.42 .0729 .0687         .0691           4. 232 -11.689 .000 -4.55 .0750 .0691         .0698           3. 800 -11.583 .000 .00 1.10 .0831 .0698           3. 925 -11.368 .000 .00 2.75 .0899 .0702           2. 925 -11.368 .000 4.56 .0995 .0707           2. 479 -11.259 .000 6.63 .1134 .0711           2. 025 -11.147 .000 9.14 .1337 .0717           1. 559 -11.033 .000 12.47 .1640 .0723           1. 074 -10.914 .000 17.35 .2091 .0730           .556 -10.787 0.00 25.25 .2680 .0738

STRM-								
⊃ 1 LU1.1	RADIUS	AXIAL	AXIAL	MERID.	TANG.	ABSOL.	TOTAL	STATIC
LINE		COORD.	VELOC.	VELOC.	VELOC.	VELOC.		TEMP.
NUMBER								
1	8.550 -	11.138	699.1	704.9	0.0	704.9	518.71	477.29
ē	8.172 -		680.2	684.3	0.0	684.3	518.71	479.67
3	7.793 -		663.1	665.8	0.0	665.8	518.71	481.76
4	7.412 -		647.4	649.0	0.0	649. Ø	518.71	483.60
ा इ.	7.029 -		632.6					
5 6	6.646 -			633.4	0.0	633.4		485.27
-7			618.3	618.5	0.0	618.5	518.71	486.82
7	6.263 -		604. Ø	604. Ø	0.0	604.0	518.71	488.30
8	5.878 -		589.5	589.6	0.0	589.6	518.71	489.74
9	5.493 -		574.3	574.9	0.0	574.9	518.71	491.17
10	5.107 -		558. 1	559.6	Ø. Ø	559.6	518.71	492.61
11	4.721 -		540.8	543.7	Ø. Ø	543.7	518.71	494 <b>.</b> 07
12	4.334 -	-10.309	522.3	527.1	0.0	527.1	518.71	495.56
13	3.947 -	-10.233	502.4	509.7	0.0	509.7	518.71	497.06
14	3.560 -	10.156	481.1	491.6	0.0	491.6	518.71	498.56
15	3.175 -	·10.081	458.1	473.1	0.0	473.1	518.71	500.06
16	2.794 -	10.006	433.Ø	454.2	0.0	454.2		501.52
17		-9.933	405.3	435.4	0.0	435.4		502.91
18		-9.863	374.2	417.9	0.0	417.9		504.16
19		-9.802	338.8	404.0		404.0		505.11
20		-9.755	298.5	397.2		397.2		505.56
21		-9.736	251.1	397.2	Q. Q	397.2	518.71	505.56
<b></b>	Tim. 1	2.720	CUL. I	U - / 1	40 a 40	W 2 / 1 C.	210.11	000.GD
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	Open	ODCOL
LINE	KHDIOO	PRESS.			TOTAL			ABSOL.
		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER	5 FF6	41 55	40.00	RATIO	RATIO	<b>70.</b> 0	NUMBER	NUMBER
1	8.550	14.69	10.99	1.0000	1.0000	704.9		. 6581
							. 637	.6372
<u>-</u>	8.172	14.69	11.18	1.0000	1.0000	684.3		
3	7.793	14.69	11.35	1.0000	1.0000	665.8	.619	.6187
2 3 4	7.793 7.412	14.69 14.69	11.35 11.50	1.0000 1.0000	1.0000 1.0000	665.8 649.0	.619 .602	.6187 .6019
5	7.793 7.412 7.029	14.69 14.69 14.69	11.35 11.50 11.64	1.0000 1.0000 1.0000	1.0000 1.0000 1.0000	665.8 649.0 633.4	.619 .602 .586	.6187 .6019 .5864
5 6	7.793 7.412 7.029 6.646	14.69 14.69	11.35 11.50	1.0000 1.0000	1.0000 1.0000	665.8 649.0	.619 .602	.6187 .6019
5 6 7	7.793 7.412 7.029	14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90	1.0000 1.0000 1.0000	1.0000 1.0000 1.0000	665.8 649.0 633.4	.619 .602 .586	.6187 .6019 .5864
5 6 7 8	7.793 7.412 7.029 6.646	14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77	1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5	.619 .602 .586 .572	.6187 .6019 .5864 .5717
5 6 7	7.793 7.412 7.029 6.646 6.263	14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6	.619 .602 .586 .572 .557	.6187 .6019 .5864 .5717 .5575
5 6 7 8	7. 793 7. 412 7. 029 6. 646 6. 263 5. 878 5. 493	14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14	1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9	.619 .602 .586 .572 .557 .543	.6187 .6019 .5864 .5717 .5575 .5434
5 6 7 8 9 10	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107	14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6	.619 .602 .586 .572 .557 .543 .529	.6187 .6019 .5864 .5717 .5575 .5434 .5290
5 6 7 8 9 10 11	7. 793 7. 412 7. 029 6. 646 6. 263 5. 878 5. 493 5. 107 4. 721	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 543.7	.619 .602 .586 .572 .557 .543 .529 .514	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989
5 6 7 8 9 10 11 12	7. 793 7. 412 7. 029 6. 646 6. 263 5. 878 5. 493 5. 107 4. 721 4. 334	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 543.7 527.1	.619 .602 .586 .572 .557 .543 .529 .514 .499	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989
5 6 7 8 9 10 11 12 13	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107 4.721 4.334 3.947	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 543.7 527.1 509.7	.619 .602 .586 .572 .557 .543 .529 .514 .499 .483	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989 .4829
5 6 7 8 9 10 11 12 13	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107 4.721 4.334 3.947 3.560	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 543.7 527.1 509.7 491.6	.619 .602 .586 .572 .557 .543 .529 .514 .499 .483 .466	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989 .4829 .4662 .4491
5 6 7 8 9 10 11 12 13 14	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107 4.721 4.334 3.947 3.560 3.175	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79 12.93	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 543.7 527.1 509.7 491.6 473.1	.619 .602 .586 .572 .557 .543 .529 .514 .499 .466 .449	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989 .4829 .4662 .4491
5 6 7 8 9 10 11 12 13 14 15 16	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107 4.721 4.334 3.947 3.560 3.175 2.794	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79 12.93 13.06	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 543.7 529.7 529.7 5491.6 473.1 454.2	.619 .602 .586 .572 .557 .543 .529 .514 .499 .483 .466 .449 .431	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989 .4829 .4662 .4491 .4314 .4136
5 6 7 8 9 10 11 12 13 14 15 16 17	7. 793 7. 412 7. 029 6. 646 6. 263 5. 878 5. 493 5. 107 4. 721 4. 334 3. 947 3. 560 3. 175 2. 794 2. 423	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79 12.93 13.06 13.19	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 559.6 7 527.1 509.7 527.1 5473.1 454.2 435.4	.619 .602 .586 .572 .557 .543 .529 .514 .499 .466 .449 .431 .414	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989 .4829 .4662 .4491 .4314 .4136 .3960
5 6 7 8 9 10 11 12 13 14 15 16 17 18	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107 4.721 4.334 3.947 3.560 3.175 2.794 2.423 2.070	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79 12.93 13.06 13.19 13.30	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 553.7 529.7 547.1 7491.6 473.1 455.4 417.9	.619 .602 .586 .572 .557 .529 .514 .499 .483 .466 .449 .431 .414 .396	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5148 .4989 .4889 .4668 .4491 .4314 .4314 .3960 .3796
56789101123145167189	7.793 7.412 7.029 6.646 6.263 5.878 5.102 4.721 4.334 3.947 3.560 3.1794 2.0756	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79 12.93 13.06 13.19 13.30 13.39	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	65.8 649.0 633.4 618.5 604.0 5874.9 55755 547.1 749.6 473.1 455.4 417.0 417.0	.619 .602 .586 .572 .557 .529 .514 .499 .483 .466 .449 .431 .414 .396 .380	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5148 .5148 .4988 .4668 .4491 .4314 .4314 .4314 .3966
5 6 7 8 9 10 11 12 13 14 15 16 17 18	7.793 7.412 7.029 6.646 6.263 5.878 5.493 5.107 4.721 4.334 3.947 3.560 3.175 2.794 2.423 2.070	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	11.35 11.50 11.64 11.77 11.90 12.02 12.14 12.27 12.40 12.53 12.66 12.79 12.93 13.06 13.19 13.30	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	665.8 649.0 633.4 618.5 604.0 589.6 574.9 553.7 529.7 547.1 7491.6 473.1 455.4 417.9	.619 .602 .586 .572 .557 .529 .514 .499 .483 .466 .449 .431 .414 .396	.6187 .6019 .5864 .5717 .5575 .5434 .5290 .5142 .4989 .4889 .4662 .4491 .4314 .4314 .3960 .3796

# FREE STATION 4.000 IS INDEX 4

STRM-	RADIUS AX	IAL I	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE	CO	DRD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER		i	ANGLE	SLOPE			
1	8.550 -11.	138	Ø. ØØ	-7.39	. 1018	.0621	Ø. 0000
2	8.172 -11.	Ø64	Ø. ØØ	-6.28	.0941	.0629	Ø. ØØØØ
3	7.793 -10.	989	ଡ. ଡଡ	-5.16	. 0878	.0636	Ø. 0000
4	7.412 -10.	914	0.00	-4.01	. 0829	.0642	0.0000
5	7.029 -10.	839	ଡ. ହହ	-2.82	. 0793	. 0648	0.0000
E	6.646 -10.	764	0.00	-1.57	.0771	.0653	0.0000
7	6.263 -10.	688	0.00	25	. 0760	.0658	<b>0.</b>
8	5.878 -10.	612	0.00	1.15	.0762	.0662	0.0000
9	5.493 -10.	537	ହ. ହହ	2.63	<b>.</b> Ø774	. 0667	<b>0.0000</b>
10	5.107 -10.	461	0.00	4.21	. 0795	.0672	0.0000
11	4.721 -10.	385	0.00	5.90	.0824	. Ø677	ଡ. ହହରହ
12	4.334 -10.	309	Ø. ØØ	7.71	.0859	.0682	0.0000
13	3.947 -10.	233	Ø. ØØ	9.69	. Ø897	.0687	<b>0.</b>
14	3.560 -10.	156	0.00	11.91	.0938	.0693	Ø. ØØØØ
15	3.175 -10.	Ø81	Ø. ØØ	14.47	. 097B	. Ø698	Ø. ØØØØ
16	2.794 -10.	ØØ6	0.00	17.56	.1008	.0703	Ø. ØØØØ
17	2.423 -9.	933	ወ. ወወ	21.43	. 1001	. 0708	<b>0.</b>
18	2.070 -9.	863	ଡ. ଡଡ	26.45	.0882	.0712	ଡ. ଉପପର
19	1.756 -9.	802	ହ.ହହ	33.00	. 0464	.0716	Ø. ØØØØ
20	1.519 -9.	755	0.00	41.28	0561	. 0717	ଉ. ଅପଅପ
2:1	1.421 -9.	736	ଉ. ହହ	50.79	2152	<b>.</b> Ø717	<b>0.</b> 2000

STRM-	RADIUE		AXIAL	MERID.	TANG.	ABSOL.		
LINE		COORD.	VELOC.	VELOC.	VELOC.	VELOC.	TEMP.	TEMP.
NUMBER 1	8.500	-8.650	731.5	731.6	0.0	731.7	E10 71	474 OD
	8.142	-8.675	727.8				518.71	474.09
2 3				727.8	Ø. Ø	727.9	518.71	474.54
	7.786	-8.700	723.4	723.4		723.5	518.71	475.08
4	7.432	-8.725	717.4	717.6	0.0	717.6	518.71	475.78
5	7.079	-8.750	709.1	709.6	Ø. Ø	709.7	518.71	476.73
6	6.728	-8.775	697.8	699.1	0.0	699. 1	518.71	477.97
7	6.377	-8.799	683.3	685.3	Ø. Ø	685.7	518.71	479.51
8	6. Ø26	-8.824	665.5	669 5	Ø. Ø	669.6	518.71	481.33
9	5.674	-8.849	644.5	650.6	0.0	650.8	518.71	483.40
1Ø	5.321	-8.874	620.5	629.6	Ø. Ø	629.6	518.71	485.67
11	4.965	-8.899	594.2	606.7	0.0	6Ø6.7	518.71	488.Q3
12	4.606	-8.924	566.7	582.9	0.0	582.9	518.71	490.39
1.3	4.246	-8.949	538.8	559.3	0.0	559.3	518.71	492.64
14	3.884	-8.975	511.2	536.6	0.0	536.6	518.71	494.71
15	3.523	-9. ଉଉଡ	484.5	515.5	Ø. Ø	515.5	518.71	496.56
16	3.168	-9.025	458.8	496.9	0.0	496.9	518.71	498.13
17	2.827	-9.049	434.0	481.3	0.0	481.3	518.71	499.41
18	2.512	-9.071	4Ø9.8	469.4	0.0	469.3	518.71	500.35
1.9	2.244	-9.090	386.4	461.5	0.0	461.5	518.71	500.96
20	2.055	-9.103	366.3	457.6		457.6	518.71	501.26
21	1.984	-9.108	357.Ø	456.7	0.0	456.6	518.71	501.33
STRM-	RADTUS	ΤΩΤΩΙ	STOTIC	ΤΠΤΔΙ	ΤΠΤΔΙ	OBGOL	OBGOL	OBSOL
STRM-	RADIUS		STATIC	TOTAL	TOTAL	ABSOL.		ABSOL.
LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	ABSOL. VELOC.	MACH	MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 14.69	PRESS.	PRESS. RATIO 1.0000	TEMP. RATIO 1.0000	VELOC. 731.7	MACH NUMBER .685	MACH NUMBER .6853
LINE NUMBER 1 2	8.500 8.142	PRESS. 14.69 14.69	PRESS. 10.73 10.77	PRESS. RATIO 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 731.7 727.9	MACH NUMBER .685 .681	MACH NUMBER .6853 .6815
LINE NUMBER 1 2 3	8.500 8.142 7.786	PRESS. 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000	VELOC. 731.7 727.9 723.5	MACH NUMBER .685 .681 .677	MACH NUMBER .6853 .6815 .6770
LINE NUMBER 1 2 3 4	8.500 8.142 7.786 7.432	PRESS. 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87	PRESS. RATIO 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000	731.7 727.9 723.5 717.6	MACH NUMBER .685 .681 .677 .671	MACH NUMBER .6853 .6815 .6770 .6710
LINE NUMBER 1 2 3 4 5	8.500 8.142 7.786 7.432 7.079	PRESS. 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000	731.7 727.9 723.5 717.6 709.7	MACH NUMBER .685 .681 .677 .671	MACH NUMBER .6853 .6815 .6770 .6710
LINE NUMBER 1 2 3 4 5 6	8.500 8.142 7.786 7.432 7.079 6.728	PRESS. 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1	MACH NUMBER .685 .681 .677 .671 .663	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.142 7.786 7.432 7.079 6.728 6.377	PRESS. 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC.  731.7 727.9 723.5 717.6 709.7 699.1 685.7	MACH NUMBER .685 .681 .677 .671 .663 .652	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521 .6387
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.142 7.786 7.432 7.079 6.728 6.377 6.026	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6	MACH NUMBER .685 .681 .677 .671 .663 .652 .639	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521 .6387
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.142 7.786 7.432 7.079 6.728 6.377 6.026 5.674	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC.  731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521 .6387 .6225
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.142 7.786 7.432 7.079 6.728 6.377 6.026 5.674 5.321	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49 11.67	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622 .604	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521 .6387 .6225 .6037
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.142 7.786 7.432 7.079 6.728 6.377 6.026 5.674 5.321 4.965	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49 11.67 11.87	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC.  731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622 .604 .583	MACH NUMBER .6853 .6815 .6770 .6629 .6521 .6387 .6225 .6037 .5827
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.142 7.786 7.432 7.079 6.728 6.377 6.026 5.674 5.321 4.965 4.606	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49 11.67 11.87 12.08	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7 582.9	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622 .604 .583	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521 .6387 .6225 .6037 .5827 .5827
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.142 7.786 7.432 7.079 6.377 6.026 5.674 5.321 4.965 4.246	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49 11.67 11.87 12.08 12.27	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7 582.9 559.3	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622 .604 .583 .560 .537	MACH NUMBER .6853 .6815 .6770 .6710 .6629 .6521 .6387 .6225 .6037 .5827 .5827 .5869 .5139
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.142 7.786 7.432 7.079 6.377 6.026 5.674 5.321 4.965 4.246 3.884	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49 11.67 11.87 12.08 12.27 12.45	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7 582.9 559.3 536.6	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622 .604 .583 .560 .537 .514 .492	MACH NUMBER .6853 .6815 .6770 .6629 .6521 .6385 .6227 .5827 .5827 .5827 .5369 .5139 .4920
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.142 7.432 7.432 7.072 6.325 6.326 5.621 4.965 4.246 4.246 3.884 3.523	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10.73 10.77 10.81 10.87 10.94 11.04 11.17 11.31 11.49 11.67 12.08 12.27 12.45 12.62	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 629.6 536.6 515.5	MACH NUMBER .685 .681 .677 .671 .663 .652 .639 .622 .604 .583 .560 .537 .514 .492 .472	MACH NUMBER .6815 .6710 .6710 .6629 .6521 .6385 .6237 .5827 .5869 .5139 .4920 .4718
LINE NUMBER 1 2 3 4 5 6 7 8 9 1 1 1 2 1 3 1 4 5 6 7 8 9 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.500 8.142 7.432 7.432 7.072 6.327 6.327 6.327 6.326 5.624 4.606 4.8823 3.568	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10. 73 10. 77 10. 81 10. 87 10. 94 11. 04 11. 17 11. 31 11. 49 11. 67 11. 87 12. 68 12. 76	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC.  731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 650.8 629.6 515.5 496.9	MACH NUMBER .685 .681 .677 .653 .652 .652 .639 .622 .504 .583 .560 .537 .514 .492 .454	MACH NUMBER .6815 .6710 .6621 .6521 .6527 .6527 .5627 .5601 .5369 .5139 .4920 .4718
LINE NUMBER 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.500 8.148 7.439 7.479 6.327 6.327 6.3966 4.8828 7.464 4.8828 7.887	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10. 73 10. 77 10. 81 10. 87 10. 94 11. 04 11. 17 11. 31 11. 49 11. 67 12. 68 12. 76 12. 87	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC.  731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7 582.9 5536.6 515.5 496.9 481.3	MACH NUMBER .685 .681 .677 .663 .652 .652 .639 .694 .580 .537 .514 .492 .454 .439	MACH NUMBER .6815 .6710 .66710 .6521 .65237 .65237 .56027 .55401 .51320 .47180 .4532
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 7 18	8.500 8.142 7.786 7.432 7.079 6.377 6.026 5.674 5.326 5.674 5.326 4.246 4.246 4.246 3.528 3.1687 2.512	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10. 73 10. 77 10. 81 10. 87 10. 94 11. 04 11. 17 11. 31 11. 49 11. 67 11. 87 12. 08 12. 27 12. 62 12. 76 12. 87 12. 96	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7 582.9 559.3 536.6 515.5 496.9 481.3 469.3	MACH NUMBER .685 .681 .677 .653 .652 .639 .632 .604 .583 .560 .514 .492 .472 .454 .439	MACH NUMBER .6815 .6815 .6710 .6621 .6521 .6325 .6325 .5327 .53601 .5369 .4718 .4540 .4379
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19	8.500 8.142 7.432 7.432 7.4079 6.377 6.024 5.624 4.248 3.566 4.248 3.568 3.568 2.244	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10. 73 10. 77 10. 81 10. 87 10. 94 11. 04 11. 17 11. 31 11. 49 11. 67 12. 08 12. 27 12. 62 12. 76 12. 96 13. 01	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 629.6 629.6 536.7 582.9 5536.6 5496.9 481.3 469.3	MACH NUMBER .681 .677 .6671 .6632 .6529 .622 .639 .539 .5492 .492 .472 .454 .429 .420	MACH NUMBER .6815 .6710 .6621 .66221 .66385 .68237 .5802 .59237 .55401 .53130 .47140 .4399 .4205
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 7 18	8.500 8.142 7.786 7.432 7.079 6.377 6.026 5.674 5.326 5.674 5.326 4.246 4.246 4.246 3.528 3.1687 2.512	PRESS.  14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	PRESS.  10. 73 10. 77 10. 81 10. 87 10. 94 11. 04 11. 17 11. 31 11. 49 11. 67 11. 87 12. 08 12. 27 12. 62 12. 76 12. 87 12. 96	PRESS. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	TEMP. RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	VELOC. 731.7 727.9 723.5 717.6 709.7 699.1 685.7 669.6 650.8 629.6 606.7 582.9 559.3 536.6 515.5 496.9 481.3 469.3	MACH NUMBER .685 .681 .677 .653 .652 .639 .632 .604 .583 .560 .514 .492 .472 .454 .439	MACH NUMBER .6815 .6815 .6710 .6621 .66237 .68237 .58237 .58269 .51369 .4920 .4718 .45392 .4279

## FREE STATION 5.000 IS INDEX 5

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-8.650	0.00	58	.0120	.0611	ଉ. ଉଉଉଉ
2	8.142	-8.675	ଡ. ଡଡ	21	.0112	.0612	ଡ. ଡଡ଼ଡଡ
3	7.786	-8.700	ହ. ହହ	.39	.0127	.0614	ଡ. ଡହଡଡ
4	7.432	-8.725	ଡ.ଡଡ	1.22	.0166	.0616	ଡ. ଉଉଉଡ
5	7.079	-8.750	ଡ. ଡଡ	2.27	.0226	.0619	<b>0.0000</b>
6	6.728	-8.775	Ø. ØØ	3.48	. 0300	.0624	Ø. 0000
7	6.377	-8.799	ଡ. ଡଡ	4.85	.0382	.0629	ଡ. ଡଡ଼ଡଡ
8	6.026	-8.824	Ø. ØØ	6.36	. 0471	.0634	ଡ. ଡଡ଼ଡଡ
9	5.674	-8.849	ଡ. ଡଡ	8.01	. 0566	<u>.</u> Q641	ଡ. ଉପ୍ରତ୍
10	5.321	-8.874	ଡ. ହଡ	9.77	. 0660	. 0649	ଡ. ଉପପଡ
11	4.965	-8.899	Ø. ØØ	11.63	.0741	. 0657	ଡ. ଡଡ଼ଡଡ
12	4.606	-8.924	ଉ. ଉଡ	13.56	.0795	.0665	ଡ. ଡଡଡଡ
13	4.246	-8.949	Ø. ØØ	15.56	.0816	.0672	<b>ଡ. ଡଡଡଡ</b>
14	3.884	-8.975	Ø. ØØ	17.68	. 0797	. 0679	ଉ. ଉଉଉଉ
15	3.523	-9. ଉଉଡ	ଉ. ଉପ	19.99	.0728	.0686	ଡ. ଡଡଡଡ
16	3.168	-9.025	ଡ.ଡଡ	22 58	. 0589	.0691	ଡ. ଡଡ଼ଅବ
17	2.827	-9.049	ଡ. ଡଡ	25.61	. 0356	.0696	ଡ. ଉପଡଡ
18	2.512	-9.071	ଉ. ଉଡ	29.18	. 0008	.0699	ଡ. ଉପ୍ପତ
19	2.244	-9. 090	ଡ. ଡଡ	33.16	Ø447	. 0701	ଡ. ଉପଡଡ
20	2.055	-9.103	Ø. ØØ	36.83	0918	.0702	Ø. ØØØØ
21	1.984	-9.108	ହ. ହହ	38.59	1173	.0702	<b>0.0000</b>

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-7.802	758.3	758.4	0.0	758.4	518.71	470.76
2	8.146	-7.877	776.2	776.3	0.0	776.4	518.71	468.46
3	7.798	-7.950	793.4	793.5	0.0	793.6	518.71	466.21
4	7.456	-8.016	805.0	805.5	0.0	805.6	518.71	464.61
5 6	7.117	-8.073	807.2	808.9	0.0	808.9	518.71	464.16
6	6.780	-B.124	799.2	802.8	0.0	802.9	518.71	464.97
7	5. 44E	-8.170	782.3	788.8	ହା. ହା	788.8	518.71	466.84
8	6.112	-8.211	759.3	769.4	0.0	769.3	518.71	469.37
9	5.779	-8.245	731.7	746. Ø	Ø. Ø	745.9	518.71	472.33
10	5.449	-8.263	699.6	719.2	Ø. Ø	719.1	518.71	475.60
1. 1	5. 123	-8.261	663.8	689.6	Ø. Ø	689.6	518.71	479. Ø7
12	4.801	-8.243	626.7	658.9	0.0	658.9	518.71	482.53
13	4.483	-8.219	590.3	628.7	Ø. 0	628.7	518.71	485.77
14	4. 167	-8.195	556.3	600.5	Ø. Ø	600.4	518.71	488.66
15	3.857	-8.176	526.2	575 <b>.</b> 8	<b>ଡ</b> . ଡ	575.8	518.71	491.08
16	3.558	-8.160	501.3	556.3	0.0	556.3	518.71	492.92
17	3.280	-8.145	482.9	543.8	0.0	543.8	518.71	494.06
18	3.036	-8.133	471.7	539.1	0.0	539.1	518.71	494.49
19	2.843	-8.125	466.8	541.3	0.0	541.2	518.71	494.29
20	2.719	-8.120	465.5	546.3		546.3	518.71	493.83
21	2.675	-8.119	465.4	548.9	0.0	548.9	518.71	493.60
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
		1.1/FMM*	L1/1"""""""""""""""""""""""""""""""""""			T this big but had to	MUMULI	1 /1 1001 1
NUMBER		"I/EUU#	L1/mmm.	RATIO	RATIO	V	NUMBER	NUMBER
1	8.500	14.69	10.47			1680.2		
1 2	8.500 8.146			RATIO 1.0000 1.0000	RATIO		NUMBER	NUMBER
1 2 3		14.69	10.47	RATIO 1.0000	RATIO 1.0000	1680.2	NUMBER .713	NUMBER 1.5793
1 & 3 4	8.146 7.798 7.456	14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00	RATIO 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000	1680.2 1633.2	NUMBER .713 .732	NUMBER 1.5793 1.5389
1 & 3 4	8.146 7.798 7.456 7.117	14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97	RATIO 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3	NUMBER .713 .732 .750 .762 .766	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136
1 2 3 4 5 6	8.146 7.798 7.456 7.117 6.780	14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3	NUMBER - 713 - 732 - 750 - 762 - 766 - 759	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623
1 3 4 5 6 7	8.146 7.798 7.456 7.117 6.780 6.446	14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8	NUMBER - 713 - 732 - 750 - 762 - 766 - 759 - 745	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062
1 3 4 5 6 7 8	8.146 7.798 7.456 7.117 6.780 6.446 6.112	14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4	NUMBER - 713 - 732 - 750 - 762 - 766 - 759 - 745 - 724	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468
1 2 3 4 5 6 7 8 9	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2	NUMBER - 713 - 732 - 750 - 762 - 766 - 759 - 745 - 724 - 700	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3622 1.2468 1.1854
1 2 3 4 5 6 7 8 9 10	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4	NUMBER - 713 - 732 - 750 - 762 - 766 - 759 - 745 - 724 - 700 - 673	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1226
1 2 3 4 5 6 7 8 9 9 1 1	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7	NUMBER .713 .732 .750 .768 .766 .759 .745 .724 .700 .673	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1226 1.0591
1 3 4 5 6 7 8 9 1 9 1 1 1 1 1	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123 4.801	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7	NUMBER     713     732     750     762     766     759     745     724     700     673     643     612	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1226 1.0591 .9962
1 2 3 4 5 6 7 8 9 9 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123 4.801 4.483	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2	NUMBER     713     732     750     762     766     759     745     724     700     643     612     582	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1226 1.0591 .9962 .9347
1 2 3 4 5 6 7 8 9 1 1 1 2 1 3 1 4	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123 4.801 4.483 4.167	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1	NUMBER     713     732     750     762     766     759     745     724     700     643     643     582     554	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1826 1.0591 .9962 .9347 .8757
1 2 3 4 5 6 7 8 9 0 1 1 1 2 3 4 5 1 4 5 1 4 5 1 1 1 1 1 1 1 1 1 1 1 1	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123 4.801 4.483 4.167 3.857	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93 12.14	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1 891.3	NUMBER	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1826 1.0591 .9962 .9347 .8757 .8202
1 2 3 4 5 6 7 8 9 0 1 1 2 1 3 4 5 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123 4.801 4.483 4.167 3.857 3.558	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93 12.14 12.30	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1 891.3 838.6	NUMBER	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1854 1.1226 1.0591 .9962 .9347 .8757 .8202 .7703
123456789012345671567	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.449 5.123 4.801 4.483 4.167 3.858 3.280	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93 12.14 12.30 12.40	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1 891.3 838.6 794.0	NUMBER	NUMBER 1.5793 1.5793 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1826 1.1826 1.0591 .9962 .9347 .8757 .8202 .7703 .7285
123456789012345678	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.429 5.123 4.801 4.463 4.167 3.857 3.280 3.036	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93 12.14 12.30 12.40 12.40	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1 891.3 838.6 794.0 759.9	NUMBER	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3662 1.3062 1.2468 1.1854 1.1226 1.0591 .9962 .9347 .8757 .8202 .7285 .6969
1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.423 4.801 4.463 4.167 3.857 3.857 3.8580 3.036 2.843	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93 12.14 12.30 12.42	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1 891.3 838.6 794.0 759.9 737.9	NUMBER     7132     750     766     7759     7765     7724     7724     700     6432     554     5530     511     4994     496	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3623 1.3062 1.2468 1.1826 1.1826 1.0591 .9962 .9347 .8757 .8202 .7285 .6969 .6769
123456789012345678	8.146 7.798 7.456 7.117 6.780 6.446 6.112 5.779 5.429 5.123 4.801 4.463 4.167 3.857 3.280 3.036	14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69 14.69	10.47 10.29 10.12 10.00 9.97 10.03 10.17 10.36 10.59 10.85 11.13 11.41 11.68 11.93 12.14 12.30 12.40 12.40	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	RATIO 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	1680.2 1633.2 1588.0 1542.1 1493.3 1440.4 1383.8 1324.4 1263.2 1200.4 1136.7 1073.0 1010.2 949.1 891.3 838.6 794.0 759.9	NUMBER	NUMBER 1.5793 1.5389 1.4999 1.4591 1.4136 1.3662 1.3062 1.2468 1.1854 1.1226 1.0591 .9962 .9347 .8757 .8202 .7285 .6969

STRM- LINE	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE	DENS- ITY	BLOC-
NUMBER 1 2 3 4 5 6 7 8	8.500 8.146 7.798 7.456 7.117 6.780 6.446 6.112	-7.802 -7.877 -7.950 -8.016 -8.073 -8.124 -8.170 -8.211	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 .15 .78 1.95 3.56 5.43 7.35 9.24	0.0000 0085 0095 .0017 .0226 .0458 .0631	. 0600 . 0593 . 0586 . 0581 . 0580 . 0582 . 0588	.0152 .0156 .0163 .0170 .0177 .0183 .0188
9	5.779	-8.245	0.00 0.00	11.23 13.40	.0755 .0839	.0605 .0616	.0195 .0204
1Ø 11	5.449 5.123	-8.263 -8.261	Ø. ØØ	15.70	.0954	.0627	.0217
12	4.801	-8.243	0.00	17.97	.1043	.0638	.0241
13	4.483	-8.219	ଡ. ଡଡ	20.12	. 1070	.0649	.0271
14	4. 167	-8.195	ଡ. ହଡ	22.10	. 1014	.0659 .0667	.0308 .0374
15	3.857	-8.176	0.00 0.00	23.94 25.68	.0875 .0655	.0673	.0460
16 17	3.558 3.280	-8.160 -8.145	Ø. ØØ	27.36	.0330	.0677	. 0580
18	3.036	-8.133	0.00	28.94	0113	.0679	. 0703
19	2.843	-8.125	ଡ. ଡଡ	30.40	0630	. 0678	. 0806
20	2.719	-8.120	Ø. ØØ	31.56	1075	.0676	.0881
21	2.675	-B.119	ଉ. ଉପ	32.02	1255	. 0676	. 0908
STRM- LINE NUMBER	BLADE SECT. ANGLE	BLADE LEAN ANGLE	WHEEL SPEED				
1	-53.95	7.35	1499.3				
2	-52.67	8.12	1436.9				
3	-51.87	7.17	1375.5				
4	-50.51	5.50 3.69	1315.1 1255.3				
5 6	-48.97 -47.87	2.69	1196.0				
7	-47.01	1.74	1136.9				
8	-46.23	.74	1078.0				
9	-45.44	65	1019.4				
10	44.59	-1.97	961.1				
11	-43.67	-3.20	903.6				
12	-42.92	-3.24	846.8				
13	-41.97	-3.01 -2.41	790.6 735.0				
14 15	-40.95 -40.03	-1.52	680.3				
16	-39.22	51	627.5				
17	-37.51	1.21	578.5				
1.8	-35.89	2.80	535.6				
19	-34.19	4.43	501.5				
20	-33.11	5. 47	479.5				
21	-32.73	5.84	471.9				

NUMBER   1
3         7.804         -7.460         670.3         670.4         206.2         701.5         565.96         525.00           4         7.473         -7.497         696.4         696.7         210.7         726.0         564.96         520.83           5         7.154         -7.529         715.2         716.6         215.3         748.4         563.96         517.32           6         6.842         -7.585         727.7         731.3         219.9         763.7         562.90         514.34           7         6.533         -7.585         726.0         732.8         227.4         767.3         562.34         513.32           8         6.223         -7.610         722.4         733.0         235.6         769.9         561.78         512.42           9         5.916         -7.629         719.4         734.7         245.6         774.7         561.40         511.42           10         5.614         -7.649         687.8         715.8         249.0         757.8         557.59         509.76           12         5.015         -7.653         653.8         868.6         231.2         762.3         552.78         508.84
4         7. 473         -7. 497         696. 4         696. 7         210. 7         728. 0         564. 96         520. 83           5         7. 154         -7. 529         715. 2         716. 6         215. 3         748. 4         563. 96         517. 32           6         6. 842         -7. 585         727. 7         731. 3         219. 9         763. 7         562. 90         514. 34           7         6. 533         -7. 610         722. 4         733. 0         235. 6         769. 9         561. 78         512. 42           9         5. 916         -7. 629         719. 4         734. 7         245. 6         774. 7         561. 40         511. 42           10         5. 614         -7. 642         712. 2         733. 5         255. 3         776. 6         560. 81         510. 58           11         5. 315         -7. 649         687. 8         715. 8         249. 0         7757. 8         557. 59         509. 76           12         5. 015         -7. 653         653. 8         688. 6         231. 2         726. 3         552. 78         508. 84           13         4. 712         -7. 657         588. 3         634. 4         197. 7         664. 4
5         7.154         -7.529         715.2         716.6         215.3         748.4         563.96         517.32           6         6.842         -7.558         727.7         731.3         219.9         763.7         562.90         514.34           7         6.533         -7.585         726.0         732.8         227.4         767.3         562.34         513.32           8         6.223         -7.610         722.4         733.0         235.6         769.9         561.78         512.42           9         5.916         -7.629         719.4         734.7         245.6         774.7         561.40         511.42           10         5.614         -7.642         712.2         733.5         255.3         776.6         560.81         510.58           11         5.315         -7.653         653.8         688.6         231.2         726.3         552.78         508.84           13         4.712         -7.656         619.1         660.7         213.2         694.1         548.22         508.09           14         4.408         -7.657         586.3         634.4         197.7         664.4         544.32         507.55
6         6.842         -7.558         727.7         731.3         219.9         763.7         562.90         514.34           7         6.533         -7.585         726.0         732.8         227.4         767.3         562.34         513.32           8         6.223         -7.610         722.4         733.0         235.6         769.9         561.78         512.42           9         5.916         -7.629         719.4         734.7         245.6         774.7         561.40         511.42           10         5.614         -7.642         712.2         733.5         255.3         776.6         560.81         510.58           11         5.315         -7.653         653.8         688.6         231.2         726.3         552.78         509.76           12         5.015         -7.656         619.1         660.7         213.2         694.1         548.22         508.09         7.55           15         4.106         -7.657         586.3         634.4         197.7         664.4         544.32         507.25           16         3.811         -7.670         503.9         566.2         165.0         589.8         535.84         506.85
7         6.533         -7.585         726.0         732.8         227.4         767.3         562.34         513.32           8         6.223         -7.610         722.4         733.0         235.6         769.9         561.78         512.42           9         5.916         -7.629         719.4         734.7         245.6         774.7         756.40         511.42           10         5.614         -7.642         712.2         733.5         255.3         776.6         560.81         510.58           11         5.315         -7.653         653.8         688.6         231.2         726.3         552.78         508.84           13         4.712         -7.656         619.1         660.7         213.2         694.1         548.22         508.09           14         4.408         -7.657         586.3         634.4         197.7         664.4         544.32         507.55           15         4.106         -7.659         555.9         609.8         185.4         637.3         541.08         507.07           17         3.534         -7.670         503.9         566.5         174.7         612.0         538.28         507.07
8         6.223         -7.610         722.4         733.0         235.6         769.9         561.78         512.42           9         5.916         -7.629         719.4         734.7         245.6         774.7         561.40         511.42           10         5.614         -7.642         712.2         733.5         255.3         776.6         560.81         510.58           11         5.315         -7.653         653.8         688.6         231.2         726.3         552.78         509.76           12         5.015         -7.656         619.1         660.7         213.2         694.1         548.22         508.09           14         4.408         -7.657         586.3         634.4         197.7         664.4         544.32         507.55           15         4.106         -7.659         555.9         609.8         185.4         637.3         541.08         507.25           16         3.811         -7.679         503.9         566.2         165.0         589.8         535.84         506.07           17         3.534         -7.675         486.2         550.5         165.0         589.8         535.84         506.5         174.7
9 5.916 -7.629 719.4 734.7 245.6 774.7 561.40 511.42 10 5.614 -7.642 712.2 733.5 255.3 776.6 560.81 510.58 11 5.315 -7.649 687.8 715.8 249.0 757.8 557.59 509.76 12 5.015 -7.653 653.8 688.6 231.2 726.3 552.78 508.84 13 4.712 -7.656 619.1 660.7 213.2 694.1 548.22 508.09 14 4.408 -7.657 586.3 634.4 197.7 664.4 544.32 507.55 15 4.106 -7.659 555.9 609.8 185.4 637.3 541.08 507.25 16 3.811 -7.664 527.8 586.5 174.7 612.0 538.28 507.07 17 3.534 -7.670 503.9 566.2 165.0 589.8 535.84 506.85 18 3.287 -7.679 486.2 550.5 156.3 572.4 533.81 506.51 19 3.089 -7.679 475.4 540.3 149.2 560.6 532.25 506.07 20 2.960 -7.683 470.6 535.0 144.2 554.2 531.25 505.66 21 2.915 -7.684 469.4 533.5 142.3 552.3 530.90 505.48  STRM-  LINE  NUMBER  1 8.500 18.61 14.73 1.2664 1.0920 145.0 .587 1.2883 2 8.146 18.76 14.67 1.2767 1.0921 1397.5 .603 1.2403 3 7.804 18.94 14.57 1.2893 1.0911 1348.7 .624 1.2004 4 7.473 19.19 14.44 1.3059 1.0892 1308.4 .651 1.1693 5 7.154 19.35 14.31 1.3170 1.0872 1268.4 .671 1.1373 6 6.842 19.46 14.19 1.3242 1.0852 1228.4 .687 1.1046 7 6.533 19.39 14.09 1.3193 1.0841 1180.0 .691 1.0622 8 6.223 19.33 14.01 1.3157 1.0830 1131.6 .694 1.0195 9 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
10         5.614         -7.642         712.2         733.5         255.3         776.6         560.81         510.58           11         5.315         -7.649         687.8         715.8         249.0         757.8         557.59         509.76           12         5.015         -7.656         619.1         660.7         213.2         694.1         548.22         508.09           14         4.408         -7.657         586.3         634.4         197.7         664.4         544.32         507.55           15         4.106         -7.659         555.9         609.8         185.4         637.3         541.08         507.25           16         3.811         -7.670         503.9         566.2         165.0         589.8         535.84         506.85           18         3.287         -7.675         486.2         550.5         156.3         572.4         533.81         506.85           19         3.089         -7.679         475.4         540.3         149.2         560.6         532.25         506.66         532.25         506.66         532.25         506.66         532.25         505.66         532.25         505.66         532.25         505.66
11 5.315 -7.649 687.8 715.8 249.0 757.8 557.59 509.76 12 5.015 -7.653 653.8 688.6 231.2 726.3 552.78 508.84 13 4.712 -7.656 619.1 660.7 213.2 694.1 548.22 508.09 14 4.408 -7.657 586.3 634.4 197.7 664.4 544.32 507.55 15 4.106 -7.659 555.9 609.8 185.4 637.3 541.08 507.25 16 3.811 -7.664 527.8 586.5 174.7 612.0 538.28 507.07 17 3.534 -7.670 503.9 566.2 165.0 589.8 535.84 506.85 18 3.287 -7.675 486.2 550.5 156.3 572.4 533.81 506.51 19 3.089 -7.679 475.4 540.3 149.2 560.6 532.25 506.07 20 2.960 -7.683 470.6 535.0 144.2 554.2 531.25 505.66 21 2.915 -7.684 469.4 533.5 142.3 552.3 530.90 505.48    STRM- LINE NUMBER  1 8.500 18.61 14.73 1.2664 1.0920 1454.0
12       5.015       -7.653       653.8       688.6       231.2       726.3       552.78       508.84         13       4.712       -7.656       619.1       660.7       213.2       694.1       548.22       508.09         14       4.408       -7.657       586.3       634.4       197.7       664.4       544.32       507.55         15       4.106       -7.659       555.9       609.8       185.4       637.3       541.08       507.25         16       3.811       -7.679       503.9       566.5       174.7       612.0       538.28       507.07         17       3.534       -7.679       503.9       566.2       165.0       589.8       535.84       506.85         18       3.287       -7.675       486.2       550.5       156.3       572.4       533.81       506.51         19       3.089       -7.679       475.4       540.3       149.2       560.6       532.25       506.07         20       2.960       -7.683       470.6       535.0       144.2       554.2       531.25       505.66         21       2.915       -7.684       469.4       533.5       142.3       552.3 <t< td=""></t<>
13
14       4.408       -7.657       586.3       634.4       197.7       664.4       544.32       507.55         15       4.106       -7.659       555.9       609.8       185.4       637.3       541.08       507.25         16       3.811       -7.664       527.8       586.5       174.7       612.0       538.28       507.07         17       3.534       -7.670       503.9       566.2       165.0       589.8       535.84       506.85         18       3.287       -7.675       486.2       550.5       156.3       572.4       533.81       506.51         19       3.089       -7.679       475.4       540.3       149.2       560.6       532.25       506.07         20       2.960       -7.683       470.6       535.0       144.2       554.2       531.25       505.66         21       2.915       -7.684       469.4       533.5       142.3       552.3       530.90       505.48         STRM-       RADIUS       TOTAL       STATIC       TOTAL       TOTAL       RELAT.       ABSOL.       RELAT.         NUMBER       1       8.500       18.61       14.73       1.2664       1.
15
16       3.811       -7.664       527.8       586.5       174.7       612.0       538.28       507.07         17       3.534       -7.670       503.9       566.2       165.0       589.8       535.84       506.85         18       3.287       -7.675       486.2       550.5       156.3       572.4       533.81       506.51         19       3.089       -7.679       475.4       540.3       149.2       560.6       532.25       506.07         20       2.960       -7.683       470.6       535.0       144.2       554.2       531.25       505.66         21       2.915       -7.684       469.4       533.5       142.3       552.3       530.90       505.48         STRM- RADIUS TOTAL PRESS. PRESS. PRESS. TEMP. PRESS. PRESS. TEMP. RATIO
17 3.534 -7.670 503.9 566.2 165.0 589.8 535.84 506.85 18 3.287 -7.675 486.2 550.5 156.3 572.4 533.81 506.51 19 3.089 -7.679 475.4 540.3 149.2 560.6 532.25 506.07 20 2.960 -7.683 470.6 535.0 144.2 554.2 531.25 505.66 21 2.915 -7.684 469.4 533.5 142.3 552.3 530.90 505.48  STRM- RADIUS TOTAL STATIC TOTAL TOTAL RELAT. ABSOL. RELAT. LINE PRESS. PRESS. PRESS. TEMP. VELOC. MACH MACH NUMBER  1 8.500 18.61 14.73 1.2664 1.0920 1454.0 .587 1.2883 2 8.146 18.76 14.67 1.2767 1.0921 1397.5 .603 1.2403 3 7.804 18.94 14.57 1.2893 1.0911 1348.7 .624 1.2004 4 7.473 19.19 14.44 1.3059 1.0892 1308.4 .651 1.1693 5 7.154 19.35 14.31 1.3170 1.0872 1268.4 .671 1.1373 6 6.842 19.46 14.19 1.3242 1.0852 1228.4 .687 1.1046 7 6.533 19.39 14.09 1.3193 1.0841 1180.0 .691 1.0622 8 6.223 19.33 14.01 1.3157 1.0830 1131.6 .694 1.0195 9 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
18       3.287       -7.675       486.2       550.5       156.3       572.4       533.81       506.51         19       3.089       -7.679       475.4       540.3       149.2       560.6       532.25       506.07         20       2.960       -7.683       470.6       535.0       144.2       554.2       531.25       505.66         21       2.915       -7.684       469.4       533.5       142.3       552.3       530.90       505.48         STRM- LINE NUMBER         PRESS.       PRESS.       PRESS.       TEMP.       VELOC.       MACH NUMBER       MACH NUMBER         1       8.500       18.61       14.73       1.2664       1.0920       1454.0       .587       1.2883         2       8.146       18.76       14.67       1.2767       1.0921       1397.5       .603       1.2403         3       7.804       18.94       14.57       1.2893       1.0911       1348.7       .624       1.2004         4       7.473       19.19       14.44       1.3059       1.0892       1308.4       .651       1.1693         5       7.154       19.35       14.31       1.3170
19
20 2.960 -7.683 470.6 535.0 144.2 554.2 531.25 505.66 21 2.915 -7.684 469.4 533.5 142.3 552.3 530.90 505.48  STRM- RADIUS TOTAL STATIC TOTAL TOTAL RELAT. ABSOL. RELAT. LINE PRESS. PRESS. TEMP. VELOC. MACH MACH NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER NUMBER 1 8.500 18.61 14.73 1.2664 1.0920 1454.0 .587 1.2883 2 8.146 18.76 14.67 1.2767 1.0921 1397.5 .603 1.2403 3 7.804 18.94 14.57 1.2893 1.0911 1348.7 .624 1.2004 4 7.473 19.19 14.44 1.3059 1.0892 1308.4 .651 1.1693 5 7.154 19.35 14.31 1.3170 1.0872 1268.4 .671 1.1373 6 6.842 19.46 14.19 1.3242 1.0852 1228.4 .687 1.1046 7 6.533 19.39 14.09 1.3193 1.0841 1180.0 .691 1.0622 8 6.223 19.33 14.01 1.3157 1.0830 1131.6 .694 1.0195 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
21         2.915         -7.684         469.4         533.5         142.3         552.3         530.90         505.48           STRM- LINE NUMBER           NUMBER         PRESS.         PRESS.         TEMP. VELOC.         MACH MACH NUMBER NUMBER           1         8.500         18.61         14.73         1.2664         1.0920         1454.0         .587         1.2883           2         8.146         18.76         14.67         1.2767         1.0921         1397.5         .603         1.2403           3         7.804         18.94         14.57         1.2893         1.0911         1348.7         .624         1.2004           4         7.473         19.19         14.44         1.3059         1.0892         1308.4         .651         1.1693           5         7.154         19.35         14.31         1.3170         1.0872         1268.4         .671         1.1373           6         6.842         19.46         14.19         1.3242         1.0852         1228.4         .687         1.1046           7         6.533         19.33         14.01         1.3157         1.0830         1131.6         .694         1.0195
STRM- LINE NUMBER         RADIUS PRESS.         TOTAL PRESS.         STATIC PRESS.         TOTAL PRESS.         TOTAL PRESS.         TOTAL RATIO         RELAT. RATIO         ABSOL. MACH NUMBER         RELAT. MACH NUMBER           1         8.500         18.61         14.73         1.2664         1.0920         1454.0         .587         1.2883           2         8.146         18.76         14.67         1.2767         1.0921         1397.5         .603         1.2403           3         7.804         18.94         14.57         1.2893         1.0911         1348.7         .624         1.2004           4         7.473         19.19         14.44         1.3059         1.0892         1308.4         .651         1.1693           5         7.154         19.35         14.31         1.3170         1.0872         1268.4         .671         1.1373           6         6.842         19.46         14.19         1.3242         1.0852         1228.4         .687         1.1046           7         6.533         19.39         14.09         1.3193         1.0841         1180.0         .691         1.0622           8         6.223         19.33         14.01         1.3166 <td< td=""></td<>
LINE NUMBER         PRESS.         PRESS.         PRESS.         PRESS.         TEMP. RATIO         VELOC.         MACH NUMBER         MACH NUMBER           1         8.500         18.61         14.73         1.2664         1.0920         1454.0         .587         1.2883           2         8.146         18.76         14.67         1.2767         1.0921         1397.5         .603         1.2403           3         7.804         18.94         14.57         1.2893         1.0911         1348.7         .624         1.2004           4         7.473         19.19         14.44         1.3059         1.0892         1308.4         .651         1.1693           5         7.154         19.35         14.31         1.3170         1.0872         1268.4         .671         1.1373           6         6.842         19.46         14.19         1.3242         1.0852         1228.4         .687         1.1046           7         6.533         19.39         14.09         1.3193         1.0841         1180.0         .691         1.0622           8         6.223         19.33         14.01         1.3157         1.0830         1131.6         .694         1.0195
NUMBER         RATIO         RATIO         NUMBER         DEAD
1       8.500       18.61       14.73       1.2664       1.0920       1454.0       .587       1.2883         2       8.146       18.76       14.67       1.2767       1.0921       1397.5       .603       1.2403         3       7.804       18.94       14.57       1.2893       1.0911       1348.7       .624       1.2004         4       7.473       19.19       14.44       1.3059       1.0892       1308.4       .651       1.1693         5       7.154       19.35       14.31       1.3170       1.0872       1268.4       .671       1.1373         6       6.842       19.46       14.19       1.3242       1.0852       1228.4       .687       1.1046         7       6.533       19.39       14.09       1.3193       1.0841       1180.0       .691       1.0622         8       6.223       19.33       14.01       1.3157       1.0830       1131.6       .694       1.0195         9       5.916       19.35       13.96       1.3166       1.0823       1084.7       .699       .9782
2       8.146       18.76       14.67       1.2767       1.0921       1397.5       .603       1.2403         3       7.804       18.94       14.57       1.2893       1.0911       1348.7       .624       1.2004         4       7.473       19.19       14.44       1.3059       1.0892       1308.4       .651       1.1693         5       7.154       19.35       14.31       1.3170       1.0872       1268.4       .671       1.1373         6       6.842       19.46       14.19       1.3242       1.0852       1228.4       .687       1.1046         7       6.533       19.39       14.09       1.3193       1.0841       1180.0       .691       1.0622         8       6.223       19.33       14.01       1.3157       1.0830       1131.6       .694       1.0195         9       5.916       19.35       13.96       1.3166       1.0823       1084.7       .699       .9782
3       7.804       18.94       14.57       1.2893       1.0911       1348.7       .624       1.2004         4       7.473       19.19       14.44       1.3059       1.0892       1308.4       .651       1.1693         5       7.154       19.35       14.31       1.3170       1.0872       1268.4       .671       1.1373         6       6.842       19.46       14.19       1.3242       1.0852       1228.4       .687       1.1046         7       6.533       19.39       14.09       1.3193       1.0841       1180.0       .691       1.0622         8       6.223       19.33       14.01       1.3157       1.0830       1131.6       .694       1.0195         9       5.916       19.35       13.96       1.3166       1.0823       1084.7       .699       .9782
4       7.473       19.19       14.44       1.3059       1.0892       1308.4       .651       1.1693         5       7.154       19.35       14.31       1.3170       1.0872       1268.4       .671       1.1373         6       6.842       19.46       14.19       1.3242       1.0852       1228.4       .687       1.1046         7       6.533       19.39       14.09       1.3193       1.0841       1180.0       .691       1.0622         8       6.223       19.33       14.01       1.3157       1.0830       1131.6       .694       1.0195         9       5.916       19.35       13.96       1.3166       1.0823       1084.7       .699       .9782
5       7.154       19.35       14.31       1.3170       1.0872       1268.4       .671       1.1373         6       6.842       19.46       14.19       1.3242       1.0852       1228.4       .687       1.1046         7       6.533       19.39       14.09       1.3193       1.0841       1180.0       .691       1.0622         8       6.223       19.33       14.01       1.3157       1.0830       1131.6       .694       1.0195         9       5.916       19.35       13.96       1.3166       1.0823       1084.7       .699       .9782
6 6.842 19.46 14.19 1.3242 1.0852 1228.4 .687 1.1046 7 6.533 19.39 14.09 1.3193 1.0841 1180.0 .691 1.0622 8 6.223 19.33 14.01 1.3157 1.0830 1131.6 .694 1.0195 9 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
7 6.533 19.39 14.09 1.3193 1.0841 1180.0 .691 1.0622 8 6.223 19.33 14.01 1.3157 1.0830 1131.6 .694 1.0195 9 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
8 6.223 19.33 14.01 1.3157 1.0830 1131.6 .694 1.0195 9 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
9 5.916 19.35 13.96 1.3166 1.0823 1084.7 .699 .9782
- 10 - 5.614 19.33 13.92 1.3154 1.0812 1038.4 .701 .9372
11 5.315 18.98 13.87 1.2914 1.0750 993.2 .685 .8971
12 5.015 18.43 13.80 1.2543 1.0657 949.2 .657 .8582 13 4.712 17,90 13.72 1.2185 1.0569 904.7 .628 .8185
14 4.408 17.46 13.67 1.1882 1.0494 859.4 .601 .7780 15 4.106 17.09 13.64 1.1633 1.0431 813.8 .577 .7369
16 3.811 16.78 13.62 1.1421 1.0377 769.1 .554 .6966
17 3.534 16.51 13.59 1.1237 1.0330 728.4 .534 .6599
18 3.287 16.29 13.56 1.1086 1.0291 694.5 .519 .6294
19 3.089 16.12 13.51 1.0970 1.0261 669.7 .508 .6071
20 2.960 16.01 13.47 1.0896 1.0242 655.1 .503 .5941
21 2.915 15.97 13.46 1.0871 1.0235 650.3 .501 .5899

age and was not any construction of a second of the second

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE		BLOC- KAGE
1	8.500	-7.383	16.76	0.00	0.0000	.0751	. 0646
2	8.146	-7.421	17.08	01	0009	.0750	.0656
3	7.804	-7.460	17.09	. 47	0108	. 0749	.0701
4	7.473	-7.497	16.83 16.72	1.68 3.49	0209	. Ø748 . Ø747	. 0769
ភ 6	7.154 6.842	-7.529 -7.558	16.72	5.62	0306 0385	.0747 .0745	. 0866 . 0986
7	6.533	-7.585	17.24	7.75	0427	.0741	.1122
B	6.223	-7.610	17.82	9.72	0446	.0738	.1230
9	5.916	-7.629	18.49	11.70	0492	.0737	.1326
10		-7.642	19.19	13.82	0610	.0736	.1399
11	5.315	-7.649	19.18	16.04	0779	.0734	. 1452
12	5.015	-7.653	18.56	18.28	0927	.0732	.1502
13 14	4.712 4.408	-7.656	17.88 17.31	20.43 22.44	1001	.0729	.1560 .1631
15	4.106	-7.657 -7.659	16.91	24.26	0984 0894	.0727 .0726	.1718
16	3.811	-7.664	16.59	25.84		.0725	.1810
17	3.534	-7.670	16.24	27.11	0619	.0724	.1908
18	3.287	-7.675	15.85	27.95	Ø476	.0722	.2018
19	3.089	-7.679	15.44		0377	.0721	.2119
20	2.960	-7.683		28.39		.0719	.2195
21	2.915	-7.684	14.93	28.37	0365	.0719	. 2224
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER 1	ANGLE -60.24	ANGLE 80	1499.3			0015	
5	-58.69	84	1436.9			.0915 .0835	
3	-56.89	1.39	1376.4			.0671	
4	-54.94	1.16	1318.2			.0395	
5	-52.77	17	1261.9			.0144	
6	-50.71	-1.31	1206.8			0097	
7	-48.64	-2.36	1152.2			0167	
8 9	-46.47 -44.20	-3.20 -3.73	1097.7 1043.6			0251	
10	-44.20	-3.73 -3.86	990.3			0386 0534	
11	-39.66	-3.59	937.5			0673	
12	-37.67	-3.21	884.6			0796	
13	-36.49	-3.20	831.2			0882	
14	-35.41	-2.91	777.5			0953	
15	-34.43	-2.18	724.3			1015	
16	-33.00	26	672.3			1057	
17 18	-31.74 -30.65	2.00 3.88	623.3 579.8			1070 1055	
19	29.83	5.38	544.9			1021	
20	-29.33	6.12	522.2			0984	
21	-29.16	6.29	514.2			0968	

1.1977

1.0515

649.0

3.165

21

17.60

13.88

.592

.5863

STATI	ON	6.400	IS INSIDE	OF A	ROTOR WITH	INDEX	8
STRM- LINE NUMBER	RADIUS	AXIAL COORD.		STRM- LINE SLOPE	TURE	DENS- ITY	BLOC- KAGE
1 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.345 3.212	-6.984 -6.987 -6.993 -7.001 -7.008 -7.022 -7.030 -7.037 -7.036 -7.036 -7.049 -7.073 -7.151 -7.154 -7.207	28.98 29.51 29.24 28.28 27.68 27.31 27.89 28.45 28.97 29.55 28.92 28.24 27.58 27.07 26.73 26.50 26.11 26.01	0.00 06 06 2.50 4.43 6.30 9.97 11.77 13.65 17.67 19.86 24.13 25.99 27.49 28.50 29.01	0.0000 0198 0302 0359 0359 03578 0461 0537 05537 05543 05548 0568 02666 02666 0440 .04694	.0823 .0826 .0827 .0827 .0825 .0821 .0893 .0793 .0775 .0758 .0758 .0747 .0743 .0743 .0743 .0735	.1648 .1681 .1737 .1833 .1946 .2084 .2214 .23462 .2586 .2696 .2811 .2918 .3034 .3159 .3286 .3416 .3539 .3630
21 STRME STRNE 123456789012345678901	3.165 BLADE SECT. ANGLE -61.07 -58.46 -52.46 -52.46 -42.66 -42.66 -42.66 -42.66 -42.66 -42.66 -42.89 -43.89 -23.88 -25.08 -21.88 -21.88 -21.88	-7.212 BLADE LEAN E LEA		29.15		.0735 LOSS COEF1611 .1472 .0711 .026603703046407191266173119066227662216821422108	. 3665

mare, it comesses to the source of the following sources of the Commission of the Co

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELDC.	ABSOL. VELDC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-6.594	564.3	564.1	497.2	752.2	642.66	595.69
ē	8.142	-6.561	579.0	578.7	516.5	776.0	642.07	592.07
3	7.802	-6.535	611.2	610.9	530.1	809.1	640.03	585.67
4	7.489	-6.514	662.3	662.1	537.5	853. Ø	636.80	576.35
5	7.199	-6.497	696.5	696. <i>8</i>	543.6	883.9	633.53	568.61
6	6. 925	-6.483	720.4	721.9	548.7	907.0	630.19	561.83
7	6.657	-6.472	712.4	715.8	561.0	909.6	628.28	559.51
é	6.388	-6.465	708.7	714.4	574.7	917.1	626.43	556.52
9	6.122	-6.458	715.0	723.6	591.5	934. B	624.97	552.33
10	5.864	-6. 445	721.8	734.1	611.9	955.8	623.99	548.03
11	5.611	-6.429	713.9	730.5	611.1	952.6	619.34	543.88
12	5.359	-6.420	696.8	718.7	593.1	932.0	611.98	539.74
13	5.103	-6.426	675.2	703.9	571.7	907.0	604.36	535.92
14	4.842	-6.453	651.6	688.6	548.4	880.4	596.66	532.18
1.5	4.576	-6.497	625.8	672.3	524.4	852.8	589.17	528.66
16	4.312	-6.544	598.6	655.8	503.7	826.9	582.50	525.58
17	4.050	-6.589	571.4	639.3	486. B	803.5	576.76	523.01
18	3.831	-6.629	545.2	623.1	472.0	781.6	571.82	520.96
19	3.643	-6.662	522.8	5Ø8.6	459.8	762.7	567.90	519.47
50	3.515	-6.684	507.2	598.2	451.4	749.3	565.32	518.57
21	3.470	-6.692	501.5	594.3	448.4	744.4	564.41	518.27
C 1	.⊇. <del>4</del> / ⟨ℓ	-0.032	רי בינושה	J34. G	440,4	/ <del>4 4 * 4</del>	704.47	710,27
CTOM	DANTHE	*****						
-ויואוכ	KHDIGS	IUIAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
STRM- LINE	RADIUS		STATIC PRESS.	TOTAL PRESS.	TOTAL TEMP.	RELAT. VELDC.		RELAT. MACH
LINE	книтиз	PRESS.	PRESS.	PRESS.	TEMP.	RELAT. VELDC.	MACH	MACH
LINE NUMBER		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1	8.500	PRESS. 26.12	PRESS. 20.01	PRESS. RATIO 1.7774	TEMP. RATIO 1.2390	VELOC.	MACH NUMBER .629	MACH NUMBER . 9609
LINE NUMBER 1 2	8.500 8.142	PRESS. 26.12 26.56	PRESS. 20.01 19.98	PRESS. RATIO 1.7774 1.8074	TEMP. RATIO 1.2390 1.2378	VELOC. 1150.0 1086.6	MACH NUMBER .629 .650	MACH NUMBER .9609 .9107
LINE NUMBER 1 2 3	8.500 8.142 7.802	PRESS. 26.12 26.56 27.11	PRESS. 20.01 19.98 19.86	PRESS. RATIO 1.7774 1.8074 1.8450	TEMP. RATIO 1.2390 1.2378 1.2339	VELDC. 1150.0 1086.6 1043.6	MACH NUMBER .629 .650 .682	MACH NUMBER .9609 .9107 .8795
LINE NUMBER 1 2 3 4	8.500 8.142 7.802 7.489	PRESS. 26.12 26.56 27.11 27.89	PRESS. 20.01 19.98 19.86 19.66	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277	VELDC. 1150.0 1086.6 1043.6 1025.7	MACH NUMBER .629 .650 .682 .725	MACH NUMBER .9609 .9107 .8795 .8713
LINE NUMBER 1 2 3 4	8.500 8.142 7.802 7.489 7.199	PRESS. 26.12 26.56 27.11 27.89 28.38	PRESS. 20.01 19.98 19.86 19.66 19.43	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214	VELDC. 1150.0 1086.6 1043.6 1025.7 1006.4	MACH NUMBER .629 .650 .682 .725	MACH NUMBER .9609 .9107 .8795 .8713 .8607
LINE NUMBER 1 2 3 4 5	8.500 8.142 7.802 7.489 7.199 6.925	PRESS. 26.12 26.56 27.11 27.89 28.38 28.67	PRESS. 20.01 19.98 19.86 19.66 19.43 19.17	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149	VELDC. 1150.0 1086.6 1043.6 1025.7 1006.4 986.8	MACH NUMBER .629 .650 .682 .725 .756	MACH NUMBER .9609 .9107 .8795 .8713 .8607
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.142 7.802 7.489 7.199 6.925 6.657	PRESS. 26.12 26.56 27.11 27.89 28.38 28.67 28.36	PRESS. 20.01 19.98 19.86 19.66 19.43 19.17 18.89	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112	VELDC. 1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5	MACH NUMBER .629 .650 .682 .725 .756 .780 .784	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388	PRESS. 26.12 26.56 27.11 27.89 28.38 28.67 28.36	PRESS. 20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077	VELDC. 1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9	MACH NUMBER .629 .650 .682 .725 .756 .780 .784	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122	PRESS. 26.12 26.56 27.11 27.89 28.38 28.67 28.36 28.12 28.10	PRESS. 20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9121	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049	VELDC. 1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864	PRESS. 26.12 26.56 27.11 27.89 28.38 28.67 28.36 28.12 28.10 28.12	PRESS. 20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57 18.22 17.85	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9131	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805 .7576
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864 5.611	PRESS.  26.12 26.56 27.11 27.89 28.38 28.67 28.36 28.12 28.10 28.12	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57 18.22 17.85 17.45	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9514 1.9300 1.9136 1.9121 1.9139 1.8725	TEMP. RATIO 1.2390 1.2378 1.2379 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9 822.7	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805 .7576 .7378
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864 5.611 5.359	PRESS.  26.12 26.56 27.11 27.89 28.38 28.67 28.36 28.12 28.10 28.12 27.51 26.48	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57 18.22 17.85 17.05	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9131 1.9139 1.8725 1.8020	TEMP. RATIO 1.2390 1.2378 1.2379 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9 822.7 800.4	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805 .7576 .7378 .7195
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864 5.611 5.359 5.103	PRESS.  26.12  26.56  27.11  27.89  28.36  28.12  28.12  28.12  27.51  26.48  25.36	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57 18.22 17.85 17.45 17.05 16.65	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9121 1.9139 1.8725 1.8020 1.7258	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798 1.1651	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9 822.7 800.4 776.8	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818 .799	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805 .7576 .7378 .7195 .7026 .6843
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864 5.611 5.359 5.103 4.842	PRESS.  26.12  26.56  27.11  27.89  28.36  28.12  28.12  28.12  28.12  28.12  28.25	PRESS. 20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57 18.22 17.45 17.45 16.65 16.25	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9121 1.9139 1.8725 1.8020 1.7258 1.6501	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798 1.1651 1.1503	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9 822.7 800.4 776.8 753.4	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818 .799 .778	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805 .7576 .7378 .7195 .7026 .6843 .6660
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864 5.611 5.359 5.103 4.842 4.576	PRESS.  26.12  26.56  27.11  27.89  28.36  28.12  28.12  28.12  28.12  28.12  28.12  28.12  28.12  28.12  28.12	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.89 18.57 18.65 17.45 17.05 16.65 16.25 15.87	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9121 1.9139 1.8725 1.8020 1.7258 1.6501 1.5784	TEMP. RATIO 1.2390 1.2378 1.2377 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798 1.1651 1.1503 1.1358	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9 822.7 800.4 776.8 753.4 729.4	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .833 .818 .799 .778	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7805 .7576 .7378 .7195 .7026 .6843 .6660 .6469
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.864 5.611 5.303 4.842 4.576 4.312	PRESS.  26.12 26.56 27.11 27.89 28.36 28.12 28.12 28.12 27.51 26.48 25.36 24.25 23.19 22.28	PRESS. 20.01 19.98 19.86 19.66 19.17 18.89 18.57 18.22 17.05 16.65 16.25 15.87	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9514 1.9136 1.9131 1.9139 1.8725 1.8020 1.7258 1.6501 1.5784 1.5160	TEMP. RATIO 1.2390 1.2378 1.2377 1.2214 1.2149 1.2149 1.2049 1.2049 1.2030 1.1940 1.1798 1.1503 1.1503 1.1358 1.1230	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 902.9 873.0 846.9 822.7 800.4 776.8 753.4 729.4 704.3	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .833 .818 .799 .776 .756	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8126 .7805 .7576 .7378 .7195 .7026 .6843 .6660 .6469
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.142 7.489 7.199 6.925 6.382 5.864 5.861 5.359 5.4.876 4.312 4.060	PRESS.  26.12 26.56 27.11 27.89 28.38 28.67 28.12 28.12 28.12 28.12 27.51 26.48 25.36 24.25 23.19 22.28 21.50	PRESS. 20.01 19.98 19.86 19.66 19.17 18.87 18.22 17.45 17.65 16.25 15.87 15.54	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9514 1.9514 1.9136 1.9131 1.9139 1.8725 1.8020 1.7258 1.5784 1.5784 1.5160	TEMP. RATIO 1.2390 1.2378 1.2377 1.2214 1.2149 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798 1.1651 1.1503 1.1358 1.1230 1.1119	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.5 9023.0 873.0 846.9 822.7 800.4 7753.4 7753.4 704.3 679.2	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818 .799 .778 .756 .736	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7578 .7578 .7195 .7026 .6843 .66469 .6266
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.142 7.802 7.489 7.199 6.657 6.382 5.611 5.353 4.576 4.576 4.060 3.831	PRESS.  26.12 26.56 27.11 27.89 28.36 28.67 28.12 28.12 27.51 26.48 25.36 24.25 23.19 22.28 21.50 20.85	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.87 18.22 17.85 17.45 16.65 16.25 15.87 15.05	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9514 1.9514 1.9300 1.9136 1.9139 1.8725 1.8020 1.7258 1.6501 1.5784 1.5160 1.4635 1.4192	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798 1.1651 1.1503 1.1503 1.11903	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.9 873.0 846.9 822.7 800.4 776.8 753.4 704.3 679.6 655.6	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818 .799 .778 .756 .717 .698	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7576 .7378 .7195 .7026 .6660 .6469 .62667 .585
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.142 7.489 7.489 7.1925 6.657 6.382 6.122 5.864 5.611 5.303 4.572 4.572 4.063 3.643	PRESS.  26.12 26.56 27.11 27.89 28.36 28.12 28.10 28.12 27.51 26.48 25.36 24.25 23.19 22.28 21.50 20.85 20.35	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.57 18.57 18.65 17.45 17.65 16.25 15.67 15.05 14.90	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9314 1.9514 1.9300 1.9136 1.9139 1.8725 1.8028 1.5784 1.5784 1.5160 1.4635 1.4192 1.3847	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.12030 1.1940 1.1798 1.1651 1.1503 1.1358 1.1230 1.1119 1.1024 1.0948	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.9 873.0 846.9 822.7 800.4 776.8 753.4 704.3 655.5	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818 .799 .778 .756 .736 .717 .698 .682	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7578 .7578 .7195 .7026 .6860 .6469 .62667 .5858
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.142 7.802 7.489 7.199 6.657 6.382 5.611 5.353 4.576 4.576 4.060 3.831	PRESS.  26.12 26.56 27.11 27.89 28.36 28.67 28.12 28.12 27.51 26.48 25.36 24.25 23.19 22.28 21.50 20.85	PRESS.  20.01 19.98 19.86 19.66 19.43 19.17 18.87 18.22 17.85 17.45 16.65 16.25 15.87 15.05	PRESS. RATIO 1.7774 1.8074 1.8450 1.8983 1.9514 1.9514 1.9300 1.9136 1.9139 1.8725 1.8020 1.7258 1.6501 1.5784 1.5160 1.4635 1.4192	TEMP. RATIO 1.2390 1.2378 1.2339 1.2277 1.2214 1.2149 1.2112 1.2077 1.2049 1.2030 1.1940 1.1798 1.1651 1.1503 1.1503 1.11903	VELDC.  1150.0 1086.6 1043.6 1025.7 1006.4 986.8 942.9 873.0 846.9 822.7 800.4 776.8 753.4 704.3 679.6 655.6	MACH NUMBER .629 .650 .682 .725 .756 .780 .784 .793 .811 .833 .818 .799 .778 .756 .717 .698	MACH NUMBER .9609 .9107 .8795 .8713 .8607 .8491 .8126 .7576 .7378 .7195 .7026 .6660 .6469 .62667 .585

STAT	ION	6.600	IS INSIDE	OF A	ROTOR WITH	INDEX	9
STRM- LINE NUMBER	RADIUS	AXIAL COORD.	FLOW	LINE	TURE	DENS- ITY	BLOC- KAGE
1 2 3 4 5 6 7 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.500 8.142 7.802 7.489 7.199 6.925 6.657 6.388 6.122 5.611 5.359 5.103 4.876 4.060 3.843 3.515	-6.535 -6.497 -6.483 -6.472 -6.465 -6.429 -6.429 -6.426 -6.429 -6.584 -6.684	41.75 40.95 37.96 37.29 38.89 38.81 39.81 39.53 39.53 37.53 37.53 37.53 37.04	0.00 42 24 .73 2.26 4.03 5.79 7.41 8.98 10.60 12.33 14.29 16.49 18.92 21.51 24.15 26.70 29.00 30.85	0.0000 .0073 .0177 .0223 .0195 .0126 .0048 00178 0134 0170 0165 0119 0040 .0048 .0238 .0433 .0846 .1002	.0907 .0911 .0915 .0916 .0921 .0921 .09911 .0891 .0853 .0853 .0853 .0853 .08798 .0778 .0778 .07769	.1426 .1462 .1511 .1595 .1688 .1801 .1918 .2035 .2151 .2269 .2398 .2542 .2702 .2864 .3253 .3430 .3588
STRM- LINE NUMBER	SECT.	BLADE LEAN ANGLE	WHEEL SPEED			LOSS COEF.	
1 2 3 4 5 6 7 8 9 10 11 12 13	-51.64 -48.33 -44.81	-11.17 -4.99 .34 4.62 4.48 3.93 2.37 1.05 .07 87 -1.76 -1.85	1499.3 1436.2 1376.2 1320.9 1269.8 1221.5 1174.2 1126.8 1079.9 1034.3 989.7 945.2		- - - - -	.2128 .1953 .1593 .0963 .0370 .0219 .0408 .0637 .0991 .1378 .1771	
13 14 15 16 17 18 19 20	-11.41 -18.96 -16.99 -15.56 -14.39 -13.87 -13.64 -13.53 -13.50	-1.33 85 39 .53 1.59 2.59 3.42 3.98 4.07	900.2 854.1 807.1 760.6 716.2 675.8 642.5 620.1		- - - - -	. 2534 . 2871 . 3183 . 3454 . 3654 . 3753 . 3746 . 3682	

-.3682 -.3646

612.1

4.07

-13.50

STRM-	RADIUS	AXIAL	AXIAL	MERID.	TANG.	ABSOL.	TOTAL	STATIC
LINE		COORD.	VELOC.	VEL OC.	VELOC.	VELOC.	TEMP.	TEMP.
NUMBER								
1	8.500	-6.196	512.4	511.9	607.2	791.5	669.01	617.06
ā	8.140	-6.127	531.5	531.1	622.2	818.3	667.17	611.62
3	7.802		570.2					
		-6.069		569.8	633.1		663.52	603.29
4	7.497	-6.023	629.1	629.0	636.2		658.57	592.09
5 6	7.222	-5.986	664.0	654.7	637.4		653.69	583.23
6		-5.954	686.3	688.4	637.4		648.89	575.75
7	6.713	-5.928	668.6	672.4	646. Ø	932.8	645.90	573.64
8	6.460	-5.906	656.4	662.3	656.5	932.8	643.11	570.83
9	6.211	-5.887	656.9	665.1	670.2		640.81	566.69
10	5.970	-5.865	658.8	669.9	687.8		639.16	562.51
11	5.737	-5.837	652 <b>.</b> 4	667.2	694.3	963.3	635.57	558.46
12	5.510	-5.314	641.4	661.1	690.1		630.25	554.30
13		-5.806	626.4	652.8				
					683.4		624.68	550.37
14	5.059	-5.819	610.8	646. Ø	675.9		619.04	546.31
15	4.830	-5.856	593. 9	640.2	666.7		613.23	542.13
16	4.602	-5.912	574.6	634.3	657.8		607.56	538.08
17	4.383	-5.970	553.8	628. Ø	651.5	905.1	602.53	534.38
18	4.185	-6.021	533.1	622.Ø	647.1	897.7	598.21	531.16
1.9	4.023	-6.063	515.0	616.6	644.0	891.7	594.77	528.60
20	3.914	-6.091	502.5	613.0	641.9			526.91
21.	3.876	-6.101	498.0	611.7	641.1	886.2	591.66	526.31
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	RELAT.	ABSOL.	RELAT.
LINE	***************************************	PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBER		FINEGO:	PRESS.			VELUC.		
	0 500	~~ ~~	64 55	RATIO			NUMBER	NUMBER
1	8.500	29.09	21.90	1.9799	1.2898	1032.0		8473
2 3	8.140	29.54	21.77	2.0102	1.2862	971.E		.8012
3	7.802	30.11	21.56	2.0494	1.2792	936.4		. 7775
4	7.497	30.98	21.33	2.1086	1.2696	930.9	.750	.7802
5	7.222	31.46	21.09	2.1413	1.2602	920.3	.778	.7771
6	6.964	31.70	20.84	2.1575	1.2510	907.3	. 798	. 7711
7	6.713	31.18	20.57	2.1222	1.2452	861.1	. 794	. 7333
8	6.460	30.78	20.26	2.0945	1.2398	819.7	.796	.6997
9	6.211	30.65	19.92	2.0860			. 809	
1.12)	5.970	30.60	19.55	2.0824		763.0		.6561
11	5.737	30.15	19.16	2.0520				
îż								
	5.510	29.40	18.75	2.0010	1.2150		.828	
13	5.284	28.54	18.31	1.9421	1.2043	698.6	.822	
14	5.059	27.66	17.85	1.8825	1.1934	681.3		
15	4.830	26.77		1.8218	1.1822	666.5		.5838
1.6	4.602	25.91	16.93	1.7633	1.1713	652.7	<b>.</b> 804	· <b>.</b> 5738
17	4.383	25.16	16.53	1.7121	1.1616	639.7	. 799	.5643
18 .	4.185	24.52	16.17	1.6689	1.1533			
19								
	4.023	24.02	15.90	1.6349	1.1466	620.1	. 791	.5501
20	4.023			1.6349 1.6125		620.1 614.9		.5501 .5463
20 21	4.023	24. Ø2 23. 69 23. 58	15.72		1.1422	614.9	.789	.5463

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	ABSOL. FLOW ANGLE	STRM- LINE SLOPE	CURVA- TURE	DENS- ITY	BLOC- KAGE
1	8.500	-6.196	49.68	0.00	<b>0.0000</b>	. 0958	.1141
2	8.140	-6.127	49.52	00	.0256	. 0961	.1160
3	7.802	-6.069	48.01	. 69	.0515	. 0965	.1187
4	7.497	-6.023	45.32	1.91	. 0609	.0972	.1218
5	7.222	-5.986	43.80	3.39	. Ø576	. 0976	.1260
6	6.964	-5.954	42.80	4.96	. 0485	. 0977	.1306
7		-5.928	43.85	6.48	. Ø392	. 0968	. 1365
8		-5.906	44.75	7.90	.0326	. 0958	. 1428
9		-5.887	45.22	9.29	.0266	. 0949	.1489
10	5.970	-5.865	45.75	10.70	.0195	.0938	. 1555
11	5.737	-5.837	46.14	12.27	.0140	.0926	.1629
12	5.510	-5.814	46.23	14.19	.0117	.0913	. 1708
13	5.284	-5.806	45.31	16.49	.0123	.0898	. 1824
14	5.059	-5.819	46.29	19.12 22.04	.0149 .0190	.0882 .0866	.1950 .2126
15		-5.856 -5.912	46.16 46.04	25.13	.0253	.0849	.2330
16 17		-5.970	46.05	28.22	.0328	.0835	. 2541
18		-6.021	46.14	31.07	.0323	.0822	.2748
19	4.023	-6.063	46.24	33.43	.0450	.0812	.2938
50		-6.091	46.32	35.00	.0475	.0805	. 3054
21	3.876	-6.101	46.35	35.56	. 0480	. 0803	.3099
	0.0.0					· - · · ·	
STRM-	BLADE	BLADE	WHEEL			LOSS	
LINE	SECT.	LEAN	SPEED			COEF.	
NUMBER	ANGLE	ANGLE					
1	-55.50	-17.43	1499.3			.2492	
2	-53.27	-6.96	1435.7			.2282	_
3	-50.09	2.02	1376.1			. 1855	·
4	-46.80	8.61	1322.4			. 1111	
ទ	-42.93	9.48	1273.8			.0405	
6	-39.37	9.53	1228.3			0299	
7 8	-35.92	7.56	1184.0			0542 0833	
9	-32.34	5.79 4.71	1139.5 1095.5			1270	
10	-28.88 -25.57	3.79	1053.0			1749	
11	-22.17	3.43	1011.9			2252	
12	-18.64	3.10	971.8			2804	
1.3	-14.98	3.47	932.1			3341	
14	-11.37	3.84	892.3			3903	
15	-8.54	3.58	852.Ø			4474	
16	-6.19	3.14	811.7			5006	
17	-4.89	2.93	773.0			5455	
18	-4.26	2.88	738.2			5779	
19	-3.77	2.83	7Ø9. 6			5940	
20	-3.80	2.90	690.4			5970	
21	-3.83	2.92	683.6			5964	

STRM-	ROTOR 1 STA NO. 1		ION 7.0 2021		FLOW TIP SPEED			CT RATIO DF BLADES	
1 8.500 -5.777 478.8 478.2 669.4 823.1 685.45 629.31   2 8.142 -5.673 507.6 507.1 681.4 849.8 681.31 621.44   3 7.613 -5.589 550.4 550.3 684.0 878.3 675.36 611.39   4 7.522 -5.522 611.3 612.2 678.5 914.2 668.32 598.97   5 7.660 -5.469 644.0 646.2 671.7 932.5 661.69 589.53   6 7.017 -5.424 663.2 667.0 664.3 941.8 655.40 581.76   7 6.780 -5.385 638.9 644.3 666.3 927.2 651.19 797.80   8 6.542 -5.351 620.3 627.6 670.1 918.5 647.29 577.23   9 6.308 -5.322 614.7 624.3 677.1 921.4 643.98 573.46   10 6.081 -5.292 610.0 622.4 706.3 941.8 640.25 566.55   12 5.662 -5.222 603.0 622.4 706.3 941.8 640.25 566.55   12 5.662 -5.222 603.0 623.6 725.3 956.9 639.16 563.08   13 5.467 -5.199 595.5 622.1 742.6 969.2 637.80 559.75   14 5.279 -5.192 588.4 622.9 760.5 983.4 636.50 556.13   15 5.100 -5.203 578.2 641.4 849.5 1000.5 633.5 552.16   16 4.928 -5.233 575.2 631.9 801.2 1000.5 633.55 552.16   16 4.928 -5.323 575.2 631.9 801.2 1000.5 633.55 552.16   16 4.928 -5.324 554.5 641.4 849.5 1064.8 633.35 532.56   19 4.501 -5.366 542.0 643.3 880.7 1082.7 1043.4 634.14 543.65   19 4.501 -5.366 542.0 643.3 889.7 1086.4 8 633.36 533.86   20 4.422 -5.393 532.0 644.3 889.7 1098.7 633.41 533.04    STRM- RADIUS TOTAL PRESS. PRES	LINE	RADIUS							
4         7,522         -5,522         611,3         612,2         678,5         914,2         668,32         598,93           5         7,260         -5,469         644,0         646,2         671,7         932,5         661,69         589,53           6         7,017         -5,385         638,9         644,3         666,3         927,2         651,19         579,80           8         6,542         -5,381         620,3         627,6         670,1         918,5         647,29         577,23           9         6,308         -5,322         610,0         622,4         687,9         928,1         641,2         569,87           10         6,081         -5,222         603,0         622,4         706,3         941,8         640,25         566,55           12         5,662         -5,222         603,0         622,4         706,3         941,8         640,25         566,55           12         5,662         -5,222         603,0         622,4         706,3         941,8         640,25         566,55           12         5,622         -5,222         603,0         622,4         687,9         928,1         636,55         522,1         643,5	1								
4         7,522         -5,522         611,3         612,2         678,5         914,2         668,32         598,93           5         7,260         -5,469         644,0         646,2         671,7         932,5         661,69         589,53           6         7,017         -5,385         638,9         644,3         666,3         927,2         651,19         579,80           8         6,542         -5,381         620,3         627,6         670,1         918,5         647,29         577,23           9         6,308         -5,322         610,0         622,4         687,9         928,1         641,2         569,87           10         6,081         -5,222         603,0         622,4         706,3         941,8         640,25         566,55           12         5,662         -5,222         603,0         622,4         706,3         941,8         640,25         566,55           12         5,662         -5,222         603,0         622,4         706,3         941,8         640,25         566,55           12         5,622         -5,222         603,0         622,4         687,9         928,1         636,55         522,1         643,5	3								
5         7, 260         -5, 469         644, 0         646, 2         67.1, 7         932, 5         661, 69         589, 53           6         7, 017         -5, 424         663, 2         667.0         664, 3         941, 8         655, 40         581, 76           7         6, 780         -5, 351         620, 3         627, 6         670, 1         918, 5         647, 29         577, 23           9         6, 308         -5, 322         614, 7         624, 3         677, 1         921, 4         643, 98         573, 46           10         6, 081         -5, 252         600, 0         622, 4         687, 9         928, 1         641, 42         569, 87           11         5, 566         -5, 252         603, 0         623, 6         725, 3         956, 9         639, 16         663, 08           13         5, 467         -5, 199         595, 5         622, 1         742, 6         969, 2         637, 80         559, 75           14         5, 279         5, 192         588, 4         622, 9         760, 5         983, 4         636, 55         561, 13           16         4, 928         -5, 233         575, 2         631, 9         801, 2         1000, 5	4								
7 6.780 -5.385 638.9 644.3 666.3 927.2 651.19 579.80 8 6.542 -5.351 620.3 627.6 670.1 918.5 647.29 577.23 9 6.308 -5.322 614.7 624.3 677.1 921.4 643.98 573.46 10 6.081 -5.292 610.0 622.4 687.9 928.1 641.42 569.87 11 5.866 -5.256 606.5 622.4 706.3 941.8 640.25 566.55 12 5.662 -5.222 603.0 623.6 725.3 956.9 639.16 562.0 8 13 5.467 -5.199 595.5 622.1 742.6 969.2 637.80 559.75 14 5.279 -5.192 588.4 622.9 766.5 983.4 636.5 9 556.13 15 5.100 -5.203 582.0 626.4 779.6 1000.5 635.35 552.16 16 4.928 -5.233 575.2 631.9 801.2 1020.8 634.55 547.94 17 4.765 -5.277 566.1 637.3 855.7 1043.4 634.1 4 543.65 19 4.501 -5.366 542.0 643.6 870.1 1082.6 633.46 533.82 539.58 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 18 18 18 18 18 18 18 18 18 18 18 18 18	5								
7 6.780 -5.385 638.9 644.3 666.3 927.2 651.19 579.80 8 6.542 -5.351 620.3 627.6 670.1 918.5 647.29 577.23 9 6.308 -5.322 614.7 624.3 677.1 921.4 643.98 573.46 10 6.081 -5.292 610.0 622.4 687.9 928.1 641.42 569.87 11 5.866 -5.256 606.5 622.4 706.3 941.8 640.25 566.55 12 5.662 -5.222 603.0 623.6 725.3 956.9 639.16 562.0 8 13 5.467 -5.199 595.5 622.1 742.6 969.2 637.80 559.75 14 5.279 -5.192 588.4 622.9 766.5 983.4 636.5 9 556.13 15 5.100 -5.203 582.0 626.4 779.6 1000.5 635.35 552.16 16 4.928 -5.233 575.2 631.9 801.2 1020.8 634.55 547.94 17 4.765 -5.277 566.1 637.3 855.7 1043.4 634.1 4 543.65 19 4.501 -5.366 542.0 643.6 870.1 1082.6 633.46 533.82 539.58 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 18 18 18 18 18 18 18 18 18 18 18 18 18	6								
8 6. 542 -5. 351 620. 3 627. 6 670. 1 918. 5 647. 29 577. 23 9 6. 308 -5. 322 614. 7 624. 3 677. 1 921. 4 643. 98 573. 46 10 6. 081 -5. 252 610. 0 622. 4 687. 9 928. 1 641. 42 569. 87 11 5. 866 -5. 256 606. 5 622. 4 706. 3 941. 8 640. 25 566. 55 12 5. 662 -5. 222 603. 0 623. 6 725. 3 956. 9 639. 16 563. 08 13 5. 467 -5. 199 535. 5 622. 1 742. 6 959. 2 637. 80 559. 75 14 5. 279 -5. 192 588. 4 622. 9 760. 5 983. 4 636. 50 556. 13 55. 100 -5. 203 582. 0 626. 4 779. 6 1000. 5 635. 35 552. 16 44. 928 -5. 233 575. 2 631. 9 801. 2 1020. 8 634. 55 547. 94 17 4. 765 -5. 277 566. 1 637. 3 825. 7 1043. 4 634. 14 543. 65 18 4. 619 -5. 324 554. 5 641. 4 849. 5 1064. 8 633. 82 539. 58 19 4. 501 -5. 366 542. 0 643. 6 870. 1 1082. 6 633. 60 536. 14 24 31. 31 22. 66 644. 3 889. 7 1098. 7 633. 41 533. 04 548. 621 4. 395 -5. 403 528. 2 644. 3 889. 7 1098. 7 633. 41 533. 04 548. 621 4. 395 -5. 403 528. 2 644. 3 889. 7 1098. 7 633. 41 533. 04 548. 621 4. 395 -5. 403 528. 2 644. 3 889. 7 1098. 7 633. 41 533. 04 548. 621 4. 395 -5. 403 528. 2 644. 3 889. 7 1098. 7 633. 41 533. 04 548. 621 4. 395 -5. 403 528. 2 644. 3 889. 7 1098. 7 633. 41 533. 04 548. 621 5. 200 32. 75 21. 84 2. 2288 1. 2757 887. 8 . 669 . 7786 5. 228 2. 2077 1. 2884 891. 6 762 . 7430 7 7 66. 70. 717 32. 81 21. 60 2. 2328 1. 2635 879. 5 . 762 . 7430 7 7 6. 76. 20 32. 75 21. 84 2. 2288 1. 2757 887. 8 . 763 . 7457 6. 648. 3 10 6. 081 30. 98 20. 46 2. 1222 1. 2415 761. 2 . 785 . 6483 10 6. 60. 30. 94 20. 16 2. 1059 1. 2343 703. 7 . 807 . 785 . 6693 11 5. 662 30. 91 19. 82 2. 1035 1. 2342 660. 9 . 882 . 5852 11 5. 662 30. 91 19. 82 2. 1035 1. 2345 660. 9 . 882 . 5852 11 5. 662 30. 91 19. 82 2. 1035 1. 2226 660. 4 . 859 569 . 5669 11 5. 662 30. 91 19. 82 2. 1035 1. 2345 7 7 1. 2296 660. 4 . 835 2. 5669 11 5. 662 30. 91 19. 82 2. 1035 1. 2345 7 7 1. 249 7 792. 5 . 786 . 672 7 1. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240 8. 240	7	6.780	-5.385						
10 6.081 -5.292 610.0 622.4 687.9 928.1 641.42 569.87 11 5.866 -5.256 606.5 622.4 706.3 941.8 640.25 566.55 12 5.662 -5.252 603.0 623.6 725.3 956.9 639.16 563.30 13 5.467 -5.199 595.5 622.1 742.6 969.2 637.80 559.75 14 5.279 -5.192 588.4 622.9 760.5 983.4 636.50 556.13 15 5.100 -5.203 582.0 626.4 779.6 1000.5 635.35 552.16 16 4.928 -5.233 575.2 631.9 801.2 1020.8 634.55 547.94 17 4.765 -5.277 566.1 637.3 825.7 1043.4 633.82 539.58 19 4.501 -5.366 542.0 644.3 884.5 1094.5 633.82 539.58 19 4.501 -5.366 542.0 644.3 884.5 1094.5 633.40 536.16 20 4.422 -5.393 528.2 644.3 889.7 1098.7 633.41 533.04  STRM- RADIUS TOTAL STATIC TOTAL RELAT. ABSOL. RACH NUMBER 1 8.500 31.05 22.99 2.1132 1.3215 957.8 669 7786 2 8.142 31.31 22.66 2.1306 1.3135 999.3 6.695 77439 3 7.813 31.71 22.35 2.1577 1.3020 885.9 724 7307 4 7.522 32.44 22.08 2.2077 1.2884 891.6 762 7430 5 7.260 32.75 21.84 2.2888 1.2757 887.8 783 7457 6 7.017 32.81 21.60 2.2328 1.2655 879.5 796 7437 7 6.780 32.07 21.34 2.1824 1.2554 834.0 785 7786 8 6.542 31.47 21.06 2.1417 1.2479 792.5 780 6727 9 6.308 31.18 20.76 2.1222 1.2415 761.2 785 6483 10 6.081 30.98 20.46 2.1085 1.2366 731.7 793 6.651 11 5.865 30.94 20.16 2.1059 1.2343 703.7 793 6.651 13 5.467 30.73 19.45 2.0917 1.2225 637.5 913 5576 14 5.279 30.55 19.04 2.0794 1.2271 645.8 850 5585 15 5.100 30.39 18.59 2.0665 1.2249 637.8 868 5536 16 4.928 30.28 18.11 2.0609 1.2233 635.5 989 5537 17 4.765 30.23 17.62 2.0570 1.2225 637.5 913 5576 18 4.619 30.18 17.17 2.0540 1.2215 648.1 .953 55761 20 4.422 30.13 16.80 2.0510 1.2215 648.1 .953 55761		6.542	-5.351	620.3	627.6				
11 5.866 -5.256 606.5 622.4 706.3 941.8 640.25 566.55 12 5.662 -5.262 603.0 623.6 725.3 956.9 633.16 563.08 13 5.467 -5.199 595.5 622.1 742.6 969.2 637.80 559.75 14 5.279 -5.192 588.4 622.9 760.5 983.4 636.50 536.13 15 5.100 -5.203 582.0 626.4 779.6 1,000.5 633.35 552.16 16 4.928 -5.233 575.2 631.9 801.2 1020.8 634.55 547.94 17 4.765 -5.277 566.1 637.3 825.7 1043.4 634.14 543.65 18 4.619 -5.324 554.5 641.4 849.5 1,064.8 633.82 539.58 19 4.501 -5.366 542.0 643.6 870.1 1082.6 633.60 536.16 20 4.422 -5.393 532.0 644.3 884.5 1094.5 633.41 533.04  STRM- RADIUS TOTAL STATIC TOTAL PRESS. PRESS. PRESS. TEMP. VELOC. MACH NUMBER 1 8.500 31.05 22.99 2.1132 1.3215 957.8 669 .7786 2 8.142 31.31 22.35 2.1577 1.3020 885.9 .724 7.307 4 7.522 32.44 22.08 2.2077 1.2884 891.6 762 .7439 5 7.260 32.75 21.84 2.288 1.2757 887.8 .783 .7457 7 6.760 32.07 21.34 2.1824 1.2554 834.0 .785 7.796 .7437 7 6.760 32.07 21.34 2.1824 1.2554 834.0 .785 7.796 .7437 7 6.760 32.07 21.34 2.1824 1.2554 834.0 .785 7.796 .7437 7 6.760 32.07 21.34 2.1824 1.2554 834.0 .785 7.796 .7437 9 6.309 31.18 20.76 2.1282 1.2415 761.2 .785 6483 1.0 6.081 30.98 20.46 2.1085 1.2366 660.4 .835 .5585 1.3 5.5640 1.3 5.669 .7786 .6483 1.3 5.467 30.99 1.2343 703.7 .807 6029 1.2 5.662 30.91 1.9.82 .1035 1.2226 660.4 .835 .5585 1.3 5.5640 1.3 5.5640 1.2236 635.5 .889 .5537 1.3 5.669 .785 6483 1.3 5.467 30.99 1.9.82 .1035 1.2326 637.5 .913 .5576 1.3 5.669 .7956 .7561 1.2249 637.8 .869 .5537 1.2 5.5693 1.2 5.669 30.99 1.2 30.99 1.2 334 .2 5.595 1.2 5.669 .3 5.509 1.2 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5								643.98	573.46
12 5.662 -5.222 603.0 623.6 725.3 956.9 633.16 563.08 13 5.467 -5.199 595.5 622.1 742.6 969.2 637.80 559.75 14 5.279 -5.192 588.4 622.9 760.5 983.4 636.50 556.13 15 51.00 -5.203 582.0 626.4 779.6 1000.5 635.35 552.16 64.928 -5.233 575.2 631.9 801.2 1020.8 634.55 547.94 17 4.765 -5.277 566.1 637.3 825.7 1043.4 634.14 543.65 18 4.619 -5.324 554.5 641.4 849.5 1044.8 633.82 539.58 19 4.501 -5.366 542.0 644.3 884.5 1094.5 633.46 533.86 533.64 21 4.395 -5.403 528.2 644.3 884.5 1094.5 633.41 533.04 19 4.501 -5.366 542.0 644.3 884.5 1094.5 633.41 533.04 19 4.501 -5.366 542.0 644.3 884.5 1094.5 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633.41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633 41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633 41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633 41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633 41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633 41 533.04 19 4.395 -5.403 528.2 644.3 889.7 1098.7 6633 41 533.04 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.403 19 4.395 -5.									569.87
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21         4.395         -5.403         528.2         644.3         889.7         1098.7         633.41         533.04           STRM-LINE NUMBER         RADIUS NUMBER         TOTAL PRESS.         STATIC PRESS.         TOTAL PRESS.         TOTAL PRESS.         TOTAL PRESS.         TEMP. PRESS.         VELOC.         MACH MACH MACH NUMBER           1         8.500         31.05         22.99         2.1132         1.3215         957.8         .669         .77439           2         8.142         31.31         22.66         2.1306         1.3135         909.3         .695         .7439           3         7.813         31.71         22.35         2.1577         1.3020         885.9         .724         .7307           4         7.522         32.44         22.288         1.2757         887.8         .783         .7457           5         7.260         32.75         21.84         2.2288         1.2635         879.5         .796         .7437           6         7.017         32.81         21.60         2.1247         1.2479         792.5         .780         .6727           7         6.780         31.18         20.07         21.342         1.2479         792.5									
LINE NUMBER  1									
NUMBER  1		RADIUS						ABSOL.	RELAT.
1       8.500       31.05       22.99       2.1132       1.3215       957.8       .669       .7786         2       8.142       31.31       22.66       2.1306       1.3135       909.3       .695       .7439         3       7.813       31.71       22.35       2.1577       1.3020       885.9       .724       .7307         4       7.522       32.44       22.08       2.2077       1.2884       891.6       .762       .7430         5       7.260       32.75       21.84       2.2888       1.2757       887.8       .783       .7457         6       7.017       32.81       21.60       2.2328       1.2635       879.5       .796       .7437         7       6.780       32.07       21.34       2.1824       1.2554       834.0       .785       .7064         8       6.542       31.47       21.06       2.1417       1.2479       792.5       .780       .6727         9       6.308       31.18       20.76       2.1222       1.2415       .761.2       .785       .6483         10       6.081       30.98       20.46       2.1085       1.2343       .703.7       .807       .6			PRESS.	PRESS.			VELOC.		
2       8.142       31.31       22.66       2.1306       1.3135       909.3       .695       .7439         3       7.813       31.71       22.35       2.1577       1.3020       885.9       .724       .7307         4       7.522       32.44       22.08       2.2077       1.2884       891.6       .762       .7430         5       7.260       32.75       21.84       2.2288       1.2757       887.8       .783       .7457         6       7.017       32.81       21.60       2.2328       1.2635       879.5       .796       .7437         7       6.780       32.07       21.34       2.1824       1.2554       834.0       .785       .7064         8       6.542       31.47       21.06       2.1417       1.2479       792.5       .780       .6727         9       6.308       31.18       20.76       2.1222       1.2415       761.2       .785       .6483         10       6.081       30.98       20.46       2.1085       1.2366       731.7       .793       .6251         11       5.866       30.91       19.82       2.1035       1.2322       680.9       .822       .58									
4       7.522       32.44       22.08       2.2077       1.2884       891.6       .762       .7430         5       7.260       32.75       21.84       2.2288       1.2757       887.8       .783       .7457         6       7.017       32.81       21.60       2.2328       1.2635       879.5       .796       .7437         7       6.780       32.07       21.34       2.1824       1.2554       834.0       .785       .7064         8       6.542       31.47       21.06       2.1417       1.2479       .792.5       .780       .6727         9       6.308       31.18       20.76       2.1222       1.2415       .761.2       .785       .6483         10       6.081       30.98       20.46       2.1085       1.2366       .731.7       .793       .6251         11       5.866       30.94       20.16       2.1059       1.2343       .703.7       .807       .6029         12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       <									
4       7.522       32.44       22.08       2.2077       1.2884       891.6       .762       .7430         5       7.260       32.75       21.84       2.2288       1.2757       887.8       .783       .7457         6       7.017       32.81       21.60       2.2328       1.2635       879.5       .796       .7437         7       6.780       32.07       21.34       2.1824       1.2554       834.0       .785       .7064         8       6.542       31.47       21.06       2.1417       1.2479       .792.5       .780       .6727         9       6.308       31.18       20.76       2.1222       1.2415       .761.2       .785       .6483         10       6.081       30.98       20.46       2.1085       1.2366       .731.7       .793       .6251         11       5.866       30.94       20.16       2.1059       1.2343       .703.7       .807       .6029         12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       <	<u> </u>								
6       7.017       32.81       21.60       2.2328       1.2635       879.5       .796       .7437         7       6.780       32.07       21.34       2.1824       1.2554       834.0       .785       .7064         8       6.542       31.47       21.06       2.1417       1.2479       792.5       .780       .6727         9       6.308       31.18       20.76       2.1222       1.2415       761.2       .785       .6483         10       6.081       30.98       20.46       2.1085       1.2366       731.7       .793       .6251         11       5.866       30.94       20.16       2.1085       1.2343       703.7       .807       .6029         12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       .5693         14       5.279       30.55       19.04       2.0794       1.2271       645.8       .850       .5585         15       5.100       30.39       18.59       2.0685       1.2249       637.8       .868 <td< td=""><td>ت ا</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	ت ا								
6       7.017       32.81       21.60       2.2328       1.2635       879.5       .796       .7437         7       6.780       32.07       21.34       2.1824       1.2554       834.0       .785       .7064         8       6.542       31.47       21.06       2.1417       1.2479       792.5       .780       .6727         9       6.308       31.18       20.76       2.1222       1.2415       761.2       .785       .6483         10       6.081       30.98       20.46       2.1085       1.2366       731.7       .793       .6251         11       5.866       30.94       20.16       2.1085       1.2343       703.7       .807       .6029         12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       .5693         14       5.279       30.55       19.04       2.0794       1.2271       645.8       .850       .5585         15       5.100       30.39       18.59       2.0685       1.2249       637.8       .868 <td< td=""><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	5								
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10       6.081       30.98       20.46       2.1085       1.2366       731.7       .793       .6251         11       5.866       30.94       20.16       2.1059       1.2343       703.7       .807       .6029         12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       .5693         14       5.279       30.55       19.04       2.0794       1.2271       645.8       .850       .5585         15       5.100       30.39       18.59       2.0685       1.2249       637.8       .868       .5536         16       4.928       30.28       18.11       2.0609       1.2233       635.5       .889       .5537         17       4.765       30.23       17.62       2.0570       1.2225       637.5       .913       .5576         18       4.619       30.18       17.17       2.0540       1.2219       642.4       .935       .5640         19       4.501       30.15       16.80       2.0518       1.2215       648.1       .953									
11       5.866       30.94       20.16       2.1059       1.2343       703.7       .807       .6029         12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       .5693         14       5.279       30.55       19.04       2.0794       1.2271       645.8       .850       .5585         15       5.100       30.39       18.59       2.0685       1.2249       637.8       .868       .5536         16       4.928       30.28       18.11       2.0609       1.2233       635.5       .889       .5537         17       4.765       30.23       17.62       2.0570       1.2225       637.5       .913       .5576         18       4.619       30.18       17.17       2.0540       1.2219       642.4       .935       .5640         19       4.501       30.15       16.80       2.0518       1.2215       648.1       .953       .5761         20       4.422       30.13       16.55       2.0505       1.2212       652.7       .966	1 🛭		30.98						
12       5.662       30.91       19.82       2.1035       1.2322       680.9       .822       .5852         13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       .5693         14       5.279       30.55       19.04       2.0794       1.2271       645.8       .850       .5585         15       5.100       30.39       18.59       2.0685       1.2249       637.8       .868       .5536         16       4.928       30.28       18.11       2.0609       1.2233       635.5       .889       .5537         17       4.765       30.23       17.62       2.0570       1.2225       637.5       .913       .5576         18       4.619       30.18       17.17       2.0540       1.2219       642.4       .935       .5640         19       4.501       30.15       16.80       2.0518       1.2215       648.1       .953       .5761         20       4.422       30.13       16.55       2.0505       1.2212       652.7       .966       .5761	11	5.866	30.94						
13       5.467       30.73       19.45       2.0917       1.2296       660.4       .835       .5693         14       5.279       30.55       19.04       2.0794       1.2271       645.8       .850       .5585         15       5.100       30.39       18.59       2.0685       1.2249       637.8       .868       .5536         16       4.928       30.28       18.11       2.0609       1.2233       635.5       .889       .5537         17       4.765       30.23       17.62       2.0570       1.2225       637.5       .913       .5576         18       4.619       30.18       17.17       2.0540       1.2219       642.4       .935       .5640         19       4.501       30.15       16.80       2.0518       1.2215       648.1       .953       .5708         20       4.422       30.13       16.55       2.0505       1.2212       652.7       .966       .5761		5.662	30.91	19.82	2.1035				
15 5.100 30.39 18.59 2.0685 1.2249 637.8 .868 .5536 16 4.928 30.28 18.11 2.0609 1.2233 635.5 .889 .5537 17 4.765 30.23 17.62 2.0570 1.2225 637.5 .913 .5576 18 4.619 30.18 17.17 2.0540 1.2219 642.4 .935 .5640 19 4.501 30.15 16.80 2.0518 1.2215 648.1 .953 .5708 20 4.422 30.13 16.55 2.0505 1.2212 652.7 .966 .5761						1.2296	660.4		
16       4.928       30.28       18.11       2.0609       1.2233       635.5       .889       .5537         17       4.765       30.23       17.62       2.0570       1.2225       637.5       .913       .5576         18       4.619       30.18       17.17       2.0540       1.2219       642.4       .935       .5640         19       4.501       30.15       16.80       2.0518       1.2215       648.1       .953       .5708         20       4.422       30.13       16.55       2.0505       1.2212       652.7       .966       .5761								.850	. 5585
17 4.765 30.23 17.62 2.0570 1.2225 637.5 .913 .5576 18 4.619 30.18 17.17 2.0540 1.2219 642.4 .935 .5640 19 4.501 30.15 16.80 2.0518 1.2215 648.1 .953 .5708 20 4.422 30.13 16.55 2.0505 1.2212 652.7 .966 .5761									
18									
19 4.501 30.15 16.80 2.0518 1.2215 648.1 .953 .5708 20 4.422 30.13 16.55 2.0505 1.2212 652.7 .966 .5761									
20 4.422 30.13 16.55 2.0505 1.2212 652.7 .966 .5761									
The state of the s									
	21	4.395	30.13			1.2211	654.4	. 971	. 5761 . 5781

ROTOR 1 STA NO.	STAT	ION 7. 202		FLOW TIP SPEED	59.52 1499.		CT RATIO OF BLADES	
STRM- LINE NUMBER	RADIUS	AXIAL COORD.		LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE	D- FACTOR
1 2	8.500 8.142	-5.777 -5.673	ANGLE 54.46 53.34	SLOPE 0.00 1.14	0.0000 .0435	. 0986 . 0984	. 0833 . 0835	.5751 .5847
3 4	7.813 7.522	-5.589 -5.522	51.18 47.94	2.60 4.04	.0645 .0673	.0987 .0995	. 0840 . 0843	.5821 .5621
5 6	7.260	-5.469	46.11	5.37	.0599	. 1000	.0841	-5453
7	7.017 6.780	-5.424 -5.385	44.88 45.96	6.62 7.84	.0490 .0397	.1002 .0993	. 0839 . 0838	.5299 .5416
8 9	6.542 6.308	-5.351 -5.322	46.88 47.32	9.09 10.38	.0356	.0985	. 0837	5506
10	6.081	-5.292	47.86	11.72	.0352 .0378	. 0977 . 0969		.5519 .5506
11 12	5.866 5.662	-5.256 -5.222	48.62 49.31	13.22 14.98	.0395 .0336	.0960 .0950	. Q840 . Q841	.5483 .5429
13 14	5.467 5.279	-5.199 -5.192	50.04 50.68	17.03	.0182 0050	.0938	.0851	. 5339
15	5.100	-5.203	51.22	21.84	0340	.0924 .0909	. 0880 . 0910	.5205 .4985
16 17	4.928 4.765	-5.233 -5.277	51.74 52.34		0631 0838	.0892 .0875	.1006 .1178	. 4693 . 4357
18 19	4.619 4.501	-5.324 -5.366	52.94 53.51		0929 0934	.0859 .0846	.1331	.3995
20 21	4.422	-5.393	53.93	34.41	0895	.0837	.1469 .1615	.3692 .3500
	4.395	-5.403	54.09	35.01	0872	. Ø834	. 1667	. 3436
STRM- LINE	BLADE SECT.	BLADE LEAN	WHEEL SPEED	INCID- ENCE	DEVIA-	LOSS COEF,	ADIAB. EFFIC.	POLYT. EFFIC.
NUMBER 1	ANGLE -53.66	ANGLE						
2	-50.09	-8.02	1499.3 1436.1	-8.947 -	-6.389 -6.012	.2705 .2435	74.01 76.83	76.56 79.13
3 4	-47.13 -44.23	4.64 12.91	1378.2 1326.7		-4.460 -2.402	.1993 .1310	81.24 87.91	93.14 89.17
5 6	-40.85 -37.64	15.62 16.73	1280.5 1237.6	-8.231 -	-2.443	.0752	93.23	93.94
7 8	-34.11 -30.41	14.63	1195.9	-8.235 -	-5.309	.0257 .0276	97.78 97.70	98. Ø1 97. 93
9	-26.24	12.63 12.29	1154.0 1112.6	-8.365 -	-7.227 -8.655	.0255 .0108	97.97 99.22	98.18 99.30
10 11	-22.34 -17.69	11.95 13.17	1072.7 1034.7	-8.605 - -8.979 -1		0036 0157	100.32	100.29
12 13	-13.11 -8.15	14.62 15.85	998.6 964.2	-9.197 -1	.Ø.557	0291	101.85	101.67
14 15	-2.20	16.74	931.2	-9.542 -1 -9.801 -1	3.123	0373 0452		101.95 102.14
16	2.77 7.00	17.58 17.30	899.5 869.2	-9.729 -1 -9.220 -1		0541 0629		102.31 102.43
17 18	10.82 14.00	15.94 14.70	840.5 814.8	-9.264 -1 -8.920 -1	2.151	0707 0776	102.76	102,49
19 20	16.58 17.61	13.69	793.9	-8.633 -	9.824	0825	102.85	102.54 102.58
21	17.81	13.14 12.94	780.1 775.2		-3.410 -7.889	0852 0860		102.60 102.60

# FREE STATION 8.000 IS INDEX 12

STRM- LINE NUMBER	RADIUS	AXIAL CODRD.	AXIAL VELDC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	-4.889	532.4	531.7	669.4	855.4	CDE 45	624.81
							685.45	
5	8.171	-4.818	562.6	562.5	679.0	882.2	681.31	616.79
3	7.868	-4.763	602.3	603.4	679.2	909.0	675.36	606.83
4	7.596	-4.715	657.6	660.6	671.8	942.6	668.32	594.59
5	7.350	-4.675	687.1	691.9	663.5	959.1	661.69	585.34
6	7.119	-4.647	704.1	710.7	654.7	966.7	655.40	577.80
7	6.894	-4.627	681.2	689. 3	655.2	951.5	651.19	576.01
8	6.669	-4.613	664.2	674.3	<b>657.</b> 3	942.2	647.29	573.56
9	6.447	-4.606	660.2	673.Ø	662.5	944.B	643. 98	569.83
10	6.232	-4.609	658.4	674.5	671.3	952.1	641.42	566.11
1.1	6.023	-4 <b>.</b> 621	658.7	679. Ø	687.9	967. Ø	640.25	562,55
12	5.823	-4.642	658.7	684.1	705.2	982.9	639.16	558.88
13	5.631	-4.672	653.7	684.9	720.9	994.9	637.80	555.54
14	5.447	-4.712	647.8	685.9	737.2	1007.4	636.50	552.15
15	5.272	-4.762	642.Ø	688.1	754.2	1021.4	635.35	548.63
16	5.108	-4.817	636.4	692.0	773.0	1037.9	634.55	545.01
17	4.961	-4.875	631.2	697.6	793.2	1056.7	634.14	541.31
18	4.833	-4.931	626.2	704.7	811.8	1075.5	633.82	537.67
19	4.734	-4.977	621.7	712.0	827.2	1091.8	633.60	534.49
20	4.671	-5.006	618.4	717.5	837.4	1103.1	633.46	532.28
21	4.649	-5.016	617.1	719.6	841.0	1107.2	633.41	531.49
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE	MUDICO	PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH.
NUMBER		FREDO.	PRESS.	RATIO	RATIO	veroc.	NUMBER	NUMBER
				MHIIM				
	0 500t	<b>ንነ</b> ወደ	99 49	9 4179		055 /		6 G T G
1	8.500	31.05	22.42	2.1132	1.3215	855.4	.698	.6979 7944
1 2	8.171	31.31	22.07	2.1306	1.3215 1.3135	882.2	.698 .724	.7244
1 2 3	8.171 7.868	31.31 31.71	22.07 21.77	2.1306 2.1577	1.3215 1.3135 1.3020	882.2 909.0	. 698 . 724 . 753	. 7244 . 7526
1 2 3 4	8.171 7.868 7.596	31.31 31.71 32.44	22.07 21.77 21.52	2.1306 2.1577 2.2077	1.3215 1.3135 1.3020 1.2884	882.2 909.0 942.6	.698 .724 .753 .788	. 7244 . 7526 . 7884
1 2 3 4 5	8.171 7.868 7.596 7.350	31.31 31.71 32.44 32.75	22.07 21.77 21.52 21.30	2.1306 2.1577 2.2077 2.2288	1.3215 1.3135 1.3020 1.2884 1.2757	882.2 909.0 942.6 959.1	.698 .724 .753 .788 .808	.7244 .7526 .7884 .8085
1 2 3 4 5 6	8.171 7.868 7.596 7.350 7.119	31.31 31.71 32.44 32.75 32.81	22.07 21.77 21.52 21.30 21.09	2.1306 2.1577 2.2077 2.2288 2.2328	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635	882.2 909.0 942.6 359.1 966.7	. 698 . 724 . 753 . 788 . 808 . 820	.7244 .7526 .7884 .8085 .8202
1 2 3 4 5 6 7	8.171 7.868 7.596 7.350 7.119 6.894	31.31 31.71 32.44 32.75 32.81 32.07	22.07 21.77 21.52 21.30 21.09 20.86	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554	882.2 909.0 942.6 959.1 966.7 951.5	. 698 . 724 . 753 . 788 . 808 . 820 . 809	.7244 .7526 .7884 .8085 .8202 .8085
1 2 3 4 5 6 7 8	8.171 7.868 7.596 7.350 7.119 6.894 6.669	31.31 31.71 32.44 32.75 32.81 32.07 31.47	22.07 21.77 21.52 21.30 21.09 20.86 20.59	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479	882.2 909.0 942.6 359.1 966.7 951.5 942.2	. 698 . 724 . 753 . 788 . 808 . 820 . 809 . 802	. 7244 . 7526 . 7884 . 8085 . 8202 . 8085 . 8023
1 2 3 4 5 6 7 8 9	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2+79 1.2415	882.2 909.0 942.6 359.1 966.7 951.5 942.2	. 698 . 724 . 753 . 788 . 808 . 820 . 809 . 802 . 807	. 7244 . 7526 . 7884 . 8085 . 8202 . 8085 . 8023 . 8072
1 2 3 4 5 6 7 8 9 10	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366	882.2 909.0 942.6 359.1 966.7 951.5 942.2 944.8 952.1	.698 .724 .753 .788 .808 .820 .809 .802 .807	. 7244 . 7526 . 7884 . 8085 . 8085 . 8085 . 8023 . 8072
1 2 3 4 5 6 7 8 9 10 1.1	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 967.0	.698 .724 .753 .788 .808 .820 .809 .802 .807 .816	.7244 .7526 .7884 .8085 .8202 .8085 .8023 .8072 .8161
1 2 3 4 5 6 7 8 9 10 11	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.823	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.94	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1035	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 982.9	.698 .724 .753 .788 .808 .820 .809 .802 .807 .816 .832	. 7244 . 7526 . 7884 . 8085 . 8202 . 8085 . 8023 . 8072 . 8161 . 8315 . 8479
1 2 3 4 5 6 7 8 9 10 11 12 13	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.823 5.631	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.94 30.91	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1035 2.0917	1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2396	882.2 909.0 942.6 759.1 966.7 951.5 942.2 952.1 967.0 982.9	.698 .724 .753 .788 .808 .820 .809 .807 .816 .832 .848	.7244 .7526 .7884 .8085 .8202 .8085 .8023 .8072 .8315 .8315 .8479
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.631 5.447	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.91 30.73 30.55	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.94 18.57	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1035 2.0917 2.0794	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271	882.2 909.0 942.6 359.1 966.7 951.5 942.2 944.8 952.1 982.9 984.9 1007.4	.698 .724 .753 .788 .808 .809 .809 .807 .816 .832 .848 .861	.7244 .7526 .7884 .8085 .8085 .8085 .8023 .8072 .8161 .8315 .8479 .8608
1 23 4 5 6 7 8 9 10 11 12 13 14 15	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.631 5.447 5.272	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.94 30.91 30.73	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.94 18.57	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1059 2.0794 2.0685	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 967.0 982.9 994.9 1007.4	.698 .724 .753 .788 .808 .809 .802 .807 .816 .832 .848 .848 .851	. 7244 . 7526 . 7884 . 8085 . 8085 . 8083 . 8072 . 8161 . 8315 . 8479 . 8608 . 8744 . 8894
1 23 4 5 6 7 8 9 10 11 12 13 14 15 16	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.823 5.631 5.447 5.272 5.108	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.94 30.91 30.55 30.55 30.39	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.94 18.57 18.17	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1059 2.0794 2.0685 2.0609	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 967.0 982.9 994.9 1007.4 1021.4	.698 .724 .753 .788 .808 .809 .809 .807 .816 .832 .848 .861 .874 .889	. 7244 . 7526 . 7884 . 8085 . 8085 . 8083 . 8072 . 8161 . 8315 . 8479 . 8608 . 8744 . 8894 . 9067
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.631 5.447 5.272	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.94 30.91 30.73	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.94 18.57	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1059 2.0794 2.0685	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 967.0 982.9 994.9 1007.4	.698 .724 .753 .788 .808 .809 .802 .807 .816 .832 .848 .848 .851	. 7244 . 7526 . 7884 . 8085 . 8085 . 8083 . 8072 . 8161 . 8315 . 8479 . 8608 . 8744 . 8894 . 9067
1 23 4 5 6 7 8 9 10 11 12 13 14 15 16	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.823 5.631 5.447 5.272 5.108	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.94 30.91 30.55 30.55 30.39	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.94 18.57 18.17	2.1306 2.1577 2.2077 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1059 2.0794 2.0685 2.0609	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 967.0 982.9 994.9 1007.4 1021.4	.698 .724 .753 .788 .808 .809 .809 .807 .816 .832 .848 .861 .874 .889	. 7244 . 7526 . 7884 . 8085 . 8085 . 8083 . 8072 . 8161 . 8315 . 8479 . 8608 . 8744 . 8894 . 9067
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 6.023 5.823 5.631 5.447 5.272 5.108 4.961	31.31 31.71 32.44 32.75 32.81 32.07 31.47 31.18 30.98 30.91 30.91 30.55 30.39 30.28	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.94 18.57 18.17 17.77	2.1306 2.1577 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1059 2.1035 2.0917 2.0685 2.0609 2.0670	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2554 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233 1.2225	882.2 909.0 942.6 959.1 966.7 951.5 942.2 944.8 952.1 967.0 982.9 994.9 1007.4 1021.4 1037.9 1056.7	.698 .724 .753 .788 .808 .809 .809 .807 .816 .832 .848 .861 .874 .889 .907	. 7244 . 7526 . 7884 . 8085 . 8085 . 8083 . 8072 . 8161 . 8315 . 8479 . 8608 . 8744 . 8894 . 9067
1 23 4 5 6 7 8 9 9 1 1 1 1 2 1 3 1 4 1 5 1 6 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.171 7.868 7.596 7.350 7.119 6.894 6.669 6.447 6.232 5.823 5.631 5.447 5.278 4.961 4.833	31.31 31.71 32.44 32.75 32.81 32.07 31.18 30.98 30.91 30.73 30.55 30.28 30.28 30.28	22.07 21.77 21.52 21.30 21.09 20.86 20.59 20.31 20.00 19.66 19.31 18.57 18.77 17.36 16.96	2.1306 2.1577 2.2288 2.2328 2.1824 2.1417 2.1222 2.1085 2.1059 2.1035 2.0917 2.0685 2.0685 2.0669 2.0570 2.0540	1.3215 1.3020 1.2884 1.2757 1.2635 1.2554 1.2554 1.2415 1.2366 1.2343 1.2322 1.2396 1.2271 1.2249 1.2233 1.2225 1.2219	882.2 909.0 942.6 959.1 951.5 942.2 944.8 952.1 962.9 982.9 10037.4 1037.9 1056.7	.698 .724 .753 .788 .808 .809 .809 .807 .816 .832 .848 .861 .874 .889 .907 .926	. 7244 . 7526 . 7884 . 8085 . 8085 . 8085 . 8027 . 8027 . 81615 . 8479 . 8698 . 8744 . 9063 . 9263 . 9459

# FREE STATION 8.000 IS INDEX 12

STRM- LINE	RADIUS	AXIAL COORD.	ABSOL. FLOW	STRM- LINE	CURVA- TURE	DENS- ITY	BLOC- KAGE
NUMBER 1234567890112345678901	8.171 7.1866 7.196 7.199 6.669 6.2323 176 6.669 6.823 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 8.331 176 176 176 176 176 176 176 176 176 17	-4.889 -4.818 -4.715 -4.677 -4.6627 -4.609 -4.6621 -4.672 -4.672 -4.873 -4.873 -4.976 -5.016	A1.08.334805575677762674815544.444.5.849.24444.5.849.24444.5.849.24444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.84444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8444.5.8	SLOPE 0.09 4.40 5.21 6.25 10.26 11.48 12.85 17.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35 19.35	0.000 .02277550 .04183 .0428337 .04283 .022440 .02187 .00162 .00162 .001652 001652 001631 1411	. 0969 . 0969 . 09969 . 09985 . 09985 . 09962 . 09962 . 09962 . 09943 . 09943 . 09944 . 08861 . 08831 . 08831	.0877 .0869 .0868 .0868 .0869 .0871 .08877 .08877 .08877 .08899 .09914 .09923 .099338
STRM- LINE NUMBER 1234567891011234567891123145678921	BLADE SECT. ANGLE 41.53 37.42 37.56.61 37.15 36.62 36.67 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.86 37.	BLANGL3 2.05598067441633-0674-13.55.7623-35.46	7.5. 7.6	31.07	1711	.0827	. 0939

STATOR STA NO.		(ON 9.0	୬ଫଫ F	FLOW	59.52	ASPE NO V	CT RATIO ANES	1.40 31
STRM- LINE NUMBE		AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.				
1	A.500	-2.220	717.9	717.8	0.0	717.B	685.45	642.77
2	8.260	-2.240	717.0	717.1	0.0	717.1		638.70
3	8.027	-2.262	720.4	720.6	Ø. Ø	720.7	675.36	632.31
4	7.805	-2.284	741.3	741.9	0.0 0.0	741.9	668.32	622.68
5	7.596	-2.305	739.4	740.4	0.0	740.4		616.22
6	7.392	-2.326	729.6	730.9	Ø. Ø	731.0		611.07
7	7.194	-2.347	714.3	716.1	0.0	716.2		608.63
8	7.001	-2.368	706.2	708.6	0.0	708.6		605.62
9	6.816	-2.386	704.9	707.9	0.0	707.9	643.98	602.38
10	6.641	-2.403	708.4	712.2	0.0	712.2	641.42	599.31
1.1	6.479	-2.419	715.1	719.7	0.0	719.8	640.25	597.23
12	6.328	-2.433	718.2	723.8	0.0	723.9	639.16	595.66
13	6.190	-2.447	716.0	722.6	0.0	722.7	637.80	594.43
14	6.064	-2.459	714.5	722.1	0.0	722.2	636.50	593.18
15	5.953	-2.470	715.1	723.8	0.0	723.8	635.35	591.84
16	5.856	-2.480	717.9	727.7	0.0	727.8	634.55	590.55
17	5.776	-2.489	720.7	731.5	0.0	731.6	634.14	589.69
18	5.713	-2.496	722.9	734.7	0.0	734.8	633.82	588.98
19	5.667	-2.502	724.6	737.1	Ø. Ø	737.2	633.60	588.46
20	5.639	-2.506	725.6	738.6	Ø., Ø	738.7		588.14
21	5.630	-2.507	726.0	739.1	0.0	739.2	633.41	588.03
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH	MACH
NUMBE	R			RATIO	RATIO		NUMBER	
1	8.500	30.36	24.22	. 9779	1.0000	717.8	.577	5774
2	8.260	30.37	24.20	. 9700	1.0000	717.1		. 5787
3	8.027	30.44	24.15	.9601	1.0000	720.7		. 5845
4	7.805	30.87	24.08	.9516	1.0000	741.9	.606	. 6064
5	7.596	30.80	23.99	. 9405	1.0000	740.4		.6083
6	7.392	30.55	23.89	.9313	1.0000	731.0	.603	.6031
7	7.194	30.17	23.80	.9408	1.0000	716.2	.592	.5920
8	7.001	29.93	23.70	.9512	1.0000	708. E	.587	.5872
Э	6.816	29.82	23. 59	. 9563	1.0000	707. 9	.588	<b>.</b> 5883
10	6.641	29.78	23.47	.9614	1.0000	712.2	.593	. 5933
. t	6.479	29.79	23.34	. 9626	1.0000	719.8	. 601	<u>.</u> 6007
12	6.328	29.70	23.20	.9610	1.0000	723.9	.605	.6049
13	6.190	29.51	23.05	.9602	1.0000	722.7	.604	. 6045
14	6.064	29.33	22.91	.9601	1.0000	722.2	.605	. 6048
15	5.953	29.21	22.77	.9609	1.0000	723.8	. 607	.6068
16	5.856	29.14	22.65	.9623	1.0000	727.8	.611	.6108
17	5.776	29.08	22.54	.9622	1.0000	731.6	.614	.6144
18	5.713 5.657	29. Ø4	22.45	.9621	1.0000	734.8	.617	.6175
19	5.667	29.01	22.38	.9621	1.0000	737.2	.620	.6198
2Ø	5.639	28.99	22.34	.9620	1.0000	738.7	.621	.6212
21	5.630	28.98	22.33	.9620	1.0000	739.2	.622	.6217

STATOR 1 STA NO. 1		ION 9.0	<b>ා</b> වල	FLOW	59.52	ASPEC NO VA	T RATIO	1.40 31
STRM- LINE	RADIUS	AXIAL COORD.	ARSOL. FLOW	LINE	CURVA- TURE	DENS- ITY	RLOC-	D- FACTOR
NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	8.500 8.260 8.267 7.805 7.596 7.392 7.194 7.001 6.641 6.641 6.479 6.328 6.953 5.856 5.776	-2.240 -2.240 -2.262 -2.265 -2.366 -2.366 -2.3686 -2.409 -2.437 -2.459 -2.459 -2.489	ANGLE	SLOPE 0.87 1.68 2.06 3.60 4.17 5.39 5.17 6.57 7.36 8.91 4.19	0352 0372 0374 0449 0528 0620 0718 0813 0900 0980 1053 1116	.1017 .1023 .1031 .1044 .1051 .1055 .1055 .1055 .1057 .1057 .1055 .1051 .1047 .1042 .1035	. 0970 . 0969 . 0969 . 0969 . 0970 . 0971 . 0973 . 0975 . 0977 . 0981 . 0985	. 4159 . 4481 . 4482 . 44309 . 45570 . 45575 . 45575 . 46575 . 46678
17 18 19 20 21	5.776 5.713 5.667 5.639 5.630	-2.489 -2.496 -2.502 -2.506 -2.507	ଷ. ହହ ହ. ହହ ହ. ହହ ହ. ହହ	9.91 10.30 10.60 10.79 10.85		.1032 .1029 .1027 .1025 .1025	. 0985 . 0986 . 0986 . 0986	. 4718 . 4756 . 4793 . 4821 . 4832
STRM- LINE NUMBER	BLADE SECT. ANGLE	BLADE LEAN ANGLE		INCID-		LOSS COEF.	ADIAB. EFFIC.	POLYT. EFFIC.
1 2 3 4 5 6 7 8 9 10	-8.96 -8.27 -7.71 -7.33 -7.07 -6.85 -6.59 -6.50 -6.42	02 01 00 . 00 . 00 . 00 00 00		10.008 11.290 10.826 8.064 6.244 5.503 6.934 8.333 8.331 8.269	8.270 7.711 7.327 7.066 6.849 6.715 6.594 6.504	.0796 .1018 .1275 .1440 .1701 .1923 .1692 .1412 .1253		74.28 75.94 78.73 83.58 86.76 89.33 90.28 91.72 93.40 94.99
11 12 13 14 15 16 17 18 19 20 21	-6.38 -6.35 -6.35 -6.35 -6.37 -6.45 -6.55 -6.55 -6.59	01 01 01 01 01 02 03 04 04 04		8.204 8.014 7.835 7.463 6.852 6.340 5.920 5.611 4.937 4.501 4.351	6.377 6.346 6.345 6.347 6.366 6.451 6.513 6.555 6.578 6.586	.1026 .1039 .1039 .1018 .0971 .0913 .0888 .0864 .0845 .0832	95.40 95.85 95.95 96.09 96.37 96.68 96.72 96.75	95.83 96.24 96.33 96.45 96.70 96.98 97.02 97.04

STP'	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
NL b c	0 500	_1 /50	705 -	705 7	2.2			
5	8.500	-1.650	706.3	706.3	0.0	706.3	685.45	644.13
3	8.267	-1.650	704.9	704.9	0.0	704.9	681.31	640.13
ა 4	8.041	-1.650	707.1	707.2	Ø. Ø	707.2	675.36	633.90
5	7.827	-1.650	726.9	727.2	0.0	727.2	668.32	624.47
	7.624	-1.650	723.5	723.9	0.0	724.0	661.69	618.22
6 7	7.428	-1.650	712.5	713.1	0.0	713.1	655.40	613.20
	7.236	-1.650	696.4	697.3	Ø. Ø	697.3	651.19	610.85
8 9	7.050	-1.650	688.1	689.2	Ø. Ø	689.2	647.29	607.86
	6.873	-1.650	687.0	688.3	Ø. Ø	688.3	643.98	604.66
10	6.705	-1.650	690.9	692.4	ଉ.ଡ	692.5	641.42	601.62
11	6.550	-1.650	698.3	700.0	Q. Q	700.1	640.25	599.56
12	6.407	-1.650	702.5	704.4	0.12	704.5	639.16	597.96
13	6.276	-1.650	701.9	703.9	0.0	703.9	637.80	596.65
14	6.158	-1.650	702.8	704.9	0.0	705.0	636.50	595.23
15	6.053	-1.650	706.8	708.9	ହ. ହ		635.35	593.61
16	5.964	-1.650	713.9	716.1	0.0	716.1	E34.55	591.96
17	5.890	-1.650	721.4	723.5	Ø. Ø	723.6	634.14	590.66
18	5.832	-1.650	728.3	730.4	Ø. Ø	730.4	633.82	589.51
19	5.790	-1.650	733.9	736.0	Ø. Ø	736.0	633.60	588.60
20	5.765	-1.650	737.7	739.7		739.7	633.46	588.01
21	5.757	-1.650	738.9	740.9	Q. Q	741.0	633.41	587.81
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.	TEMP.	VELOC.	MACH.	MACH
NUMBER			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RATIO	RATIO	V LLLUCIA	NUMBER	NUMBER
1	8.500	30.36	24.40	2.0665	1.3215	706.3	. 568	. 5676
2	8.267	30.37	24.39	2.0666	1.3135	704.9	. 568	.5682
3	8.041	30.44	24.36	2.0715	1.3020	707.2	. 573	
4	7.827	30.87	24.32	2.1008	1.2884	727.2	.593	.5729
5	7.624	30.80	24.26	2.0962	1.2757	724.0	. 594	. 5935
Ë	7.428	30.55	24.19	2.0794	1.2635	713.1	. 587	.5938 .5873
7	7.236	30.17	24.10	2.0533	1.2554	697.3	. 575	
8	7.050	29.93	24.01	2.0372	1.2479	689.2	.570	.5754 .5701
9	6.873	29.82	23.91			688.3	.571	.5709
1(2)	6.705	29.78	23.79	2.0270	1.2366	692.5	. 576	
1.1	6.550	29.79	23.66	2.0271	1.2343	700.1		.5758
12	6.407	29.70	23.51	2.0215	1.2322		.583	.5831
13	6.276	29.51	23.36	2.0083	1.2296	704.5	.588	.5875
14	6. 158	29.33	23.19	1.9963	1.2271	703.9	.588	. 5877 5877
15			23.01	1.9877	1.2249	705.0	.569	.5893
4. 6.7	Pr. 1/17-14:			7" 30//	1.6543	709. O	. 593	. 5935
	6.053 5 964	29.21			4 0000	715		
16	5.964	29.14	22.84	1.9831	1.2233	716.1	.600	.6003
16 17	5.964 5.890	29.14 29.08	22.84 22.67	1.9831 1.9792	1.2225	723.6	.600 .607	.6003 .6072
16 17 18	5, 964 5, 890 5, 832	29.14 29.08 29.04	22.84 22.67 22.52	1.9831 1.9792 1.9762	1.2225 1.2219	723.6 730.4	.600 .607 .614	.6003 .6072 .6135
16 17 18 19	5.964 5.890 5.832 5.790	29.14 29.08 29.04 29.01	22.84 22.67 22.52 22.40	1.9831 1.9792 1.9762 1.9740	1.2225 1.2219 1.2215	723.6 730.4 736.0	.600 .607 .614 .619	.6003 .6072 .6135 .6187
16 17 18	5, 964 5, 890 5, 832	29.14 29.08 29.04	22.84 22.67 22.52	1.9831 1.9792 1.9762	1.2225 1.2219	723.6 730.4	.600 .607 .614	.6003 .6072 .6135

# FREE STATION 10.000 IS INDEX 14

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.650	Ø. ØØ	ଡ. ଡଡ	<b>0.                                    </b>	.1022	. 0607
2	8.267	-1.650	0.00	. 58	0073	.1028	. 0607
3	8.041	-1.650	Ø. ØØ	1.13	0139	.1037	. 0607
4	7.827	-1.650	Ø. ØØ	1.63	0210	. 1051	.0607
5	7.624	-1.650	Ø. ØØ	2.07	0286	.1059	. 0607
6	7.428	-1.650	Ø. ØØ	2.48	0356	.1065	. 0607
7	7.236	-1.650	ଡ. ହଡ	2.87	0424	.1065	. 0607
8	7.050	-1.650	0.00	3.22	0495	.1066	. 0607
9	6.873	-1.650	Ø. QQ	3.54	0580	.1067	. 0607
10	6.705	-1.650	0.00	3.82	0683	.1067	. 0607
11	6.550	-1.650	Ø. ØØ	4.06	0809	.1065	.0607
12	6.407	-1.650	0.00	4.25	0956	.1061	. 0607
13	6.276	-1.650	0.00	4.39	1126	.1057	. 0607
14	6.158	-1.650	Ø. ØØ	4.48	1323	. 1051	. 0607
15	6.053	-1.650	0.00	4.51	1542	. 1046	. 0607
16	5.964	-1.650	ଡ. ଡଡ	4.50	1774	. 1041	. 0607
17	5.890	-1.650	0.00	4.45	2005	.1036	. 0607
18	5.832	-1.650	Ø. ØØ	4.38	2217	.1031	. 0607
19	5.790	-1.650	0.00	4.31	2388	.1027	.0607
20	5.765	-1.650	Ø. ØØ	4.26	2500	.1025	. 0607
21	5.757	-1.650	Ø. ØØ	4.24	2539	.1024	. 0607

STRM- RADIUS AXIAL AXIAL MERID. TANG. ABSOL. TOTAL LINE CODRD. VELOC. VELOC. VELOC. TEMP.	STATIC TEMP.
NUMBER	
	642.30
	638.34
3 8.046 -1.350 721.6 721.7 0.0 721.7 675.36	632.19
4 7.834 -1.350 740.1 740.3 0.0 740.3 668.32	622.88
5 7.633 -1.350 735.6 735.9 0.0 735.9 661.69	616.77
6 7.438 -1.350 723.4 723.7 0.0 723.7 655.40	611.94
7 7.248 -1.350 705.9 706.3 0.0 706.4 651.19	609.79
	607.03
	604.08
10 6.720 -1.350 694.3 694.9 0.0 694.9 641.42	601.34
	599.64
	598.50
	597.75
14 6.170 -1.350 689.2 689.5 0.0 689.6 636.50	597.01
15 6.064 -1.350 686.3 686.5 0.0 686.5 635.35	596.21
	595.49
17 5.896 -1.350 684.8 684.8 0.0 684.9 634.14	595.19
	595.01
	594.93
	594.90
	594.89
STRM- RADIUS TOTAL STATIC TOTAL TOTAL ABSOL. ABSOL.	ABSOL.
LINE PRESS. PRESS. TEMP. VELOC. MACH	MACH
NUMBER RATIO RATIO NUMBER	NUMBER
1 8.500 30.36 24.16 2.0665 1.3215 721.8 .581	.5808
2 8.269 30.37 24.15 2.0666 1.3135 720.1 .581	.5813
3 0.046 30.44 24.13 2.0715 1.3020 721.7 .585	
	. 5854
4 7.834 30.87 24.10 2.1008 1.2884 740.3 .605	. 5854 . 6050
4 7.834 30.87 24.10 2.1008 1.2884 740.3 .605 5 7.633 30.80 24.06 2.0962 1.2757 735.9 .604	.5854 .6050 .6043
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597	.5854 .6050 .6043 .5967
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583	.5854 .6050 .6043 .5967 .5834
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576	.5854 .6050 .6043 .5967 .5834 .5765
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575	.5854 .6050 .6043 .5967 .5834 .5765
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578	.5854 .6050 .6043 .5967 .5834 .5765 .5753
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582	.5854 .6050 .6043 .5967 .5834 .5765 .5753 .5779
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583	.5854 .6050 .6043 .5967 .5834 .5765 .5753 .5779 .5825
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.93       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .579	.5854 .6050 .6043 .5967 .5834 .5765 .5753 .5779 .5825 .5834
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.93       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .576         14       6.170       29.33       23.43       1.9963       1.2271       689.6       .576 <td>.5854 .6050 .6043 .5967 .5834 .5765 .5779 .5825 .5834 .5793</td>	.5854 .6050 .6043 .5967 .5834 .5765 .5779 .5825 .5834 .5793
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.93       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .576         14       6.170       29.33       23.43       1.9963       1.2271       689.6       .576      <	.5854 .6050 .6043 .5967 .5834 .5765 .5779 .5825 .5834 .5793 .5734
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.93       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .579         14       6.170       29.33       23.43       1.9963       1.2271       689.6       .573      <	.5854 .6050 .6043 .5967 .5834 .5765 .5779 .5825 .5834 .5793 .5736 .5734
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .579         14       6.170       29.33       23.43       1.9963       1.2271       689.6       .573      <	.5854 .6050 .6043 .5967 .5834 .5765 .5779 .5825 .5834 .5793 .5736 .5732
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .576         15       6.064       29.21       23.37       1.9877       1.2249       686.5       .573      <	.5854 .6050 .6043 .5967 .5834 .5765 .5753 .5779 .5825 .5793 .5736 .5736 .5736
4       7.834       30.87       24.10       2.1008       1.2884       740.3       .605         5       7.633       30.80       24.06       2.0962       1.2757       735.9       .604         6       7.438       30.55       24.01       2.0794       1.2635       723.7       .597         7       7.248       30.17       23.96       2.0533       1.2554       706.4       .583         8       7.063       29.93       23.89       2.0372       1.2479       696.5       .576         9       6.887       29.82       23.83       2.0295       1.2415       693.4       .575         10       6.720       29.78       23.75       2.0270       1.2366       694.9       .578         11       6.565       29.79       23.67       2.0271       1.2343       699.4       .582         12       6.421       29.70       23.59       2.0215       1.2322       699.9       .583         13       6.290       29.51       23.51       2.0083       1.2296       694.5       .579         14       6.170       29.33       23.43       1.9963       1.2271       689.6       .573      <	.5854 .6050 .6043 .5967 .5834 .5765 .5779 .5825 .5834 .5793 .5736 .5732

# FREE STATION 11.000 IS INDEX 15

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.350	0.00	0.00	ଡ. ହହହ୍ୟ	.1015	. 0640
2	8.269	-1.350	0.00	. 44	0052	.1021	. 0640
3	8.046	-1.350	ଡ. ଡଡ	.86	0104	. 1030	.0640
4	7.834	-1.350	ଡ. ହହ	1.22	0153	. 1044	. 0640
5	7.633	-1.350	0.00	1.51	- <b>. 0</b> 200	.1053	. 0640
6	7.438	-1.350	0.00	1.77	0248	. 1059	. 0640
7	7.248	-1.350	0.00	2.01	0296	.1060	. 0640
8	7.063	-1.350	ପ୍ଲ ହହା	2.20	0344	.1062	. Ø640
9	6.887	-1.350	ଡ. ଡଡ	2.34	Ø394	. 1065	.0640
1 🕏	6.720	-1.350	0.00	2.40	01444	-1066	. 0640
11	6.565	-1.350	Ø. ØØ	2.39	0491	. 1065	. 0640
12	6.421	-1.350	Ø. ØØ	2.30	0529	. 1054	. 0640
13	6.290	-1.350	0.00	2.14	0551	. 1061	.0640
14	6.170	1.350	0.00	1.89	0549	.1059	. 0640
15	6.064	-1.350	ଡ.ଡଥ	1.58	0514	.1058	. 0640
16	5.972	-1.350	0.00	1.23	0444	. 1057	. 0640
17	5.896	-1.350	ଉ.ଡଡ	.86	0342	. 1056	. 0640
18	5.835	-1.350	Ø. ØØ	.52	0224	. 1055	. 0640
19	5.792	-1.350	ଉ. ଉଡ	, 25	0111	. 1055	.0640
50	5.766	-1.350	Ø. ØØ	. Ø6	0030	. 1055	. 0640
21	5.757	-1.350	Ø. ØØ	Ø. ØØ	Ø. ØØØØ	. 1055	.0640

# FREE STATION 12.000 IS INDEX 16

STRM- LINE NUMBER	RADIUS	AXIAL COORD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.		STATIC TEMP.
	0 500	1 050	776 0	777 0	0.0	777 0	CDE 4E	F 4.00 4.F
1	8.500	-1.050	736.9	737.0	0.0		685.45	640.46
2 3	8.271	-1.050	735.0	735.1			681.31	636.54
3	8.050	-1.050	735.9	735.9		735.9	675.36	630.47
4	7.839	-1.050	753.Ø	753.2			668.32	621.28
5	7.640	-1.050	747.4	747.6			661.69	615.34
6	7.446	-1.050	733.8	734.Ø	0.0	734.Ø	655 <b>.</b> 40	610.69
7	7.257	-1.050	714.9	715.2	Ø. Ø	715.2	651.19	608.74
8	7.073	-1.050	703.1	703.5	0.0	703.4	647.29	606.22
9	6.897	-1.050	697.8	698.2		698.2	643.98	603.52
10	6.730	-1.050	696.9	697.3			641.42	601.06
1 1	6.575	-1.050	698.7	699. 0			640.25	599.68
12	6.431	-1.050	696.3	696.6			639.16	598.87
1.3	6.298	-1.050	688.0	688.2			637.80	598.47
14	6.178	-1.050	680.2	680.3			636.50	598.07
15	6.070	-1.050	674.5	674 <b>.</b> 6			635.35	597.56
16	5.976	-1.050	671.6	671.6		671.6		597.09
17	5.899	-1.050	669.0					
18				669.1			634.14	596.97
	5.837	-1.050	666.9	666.9		666.9		596.89
19	5.793	-1.050	665.2	665.2			633.60	596.85
20	5.766	-1.050		664.1			633.46	596.84
21	5.757	-1.050	663.7	663.7	Ø. Ø	663.7	633.41	596.83
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
LINE		PRESS.	PRESS.	PRESS.			MACH	MACH
NUMBER		7 1100	"" NCDO"	RATIO	RATIO	VLLOU.	NUMBER	
1	8,500	30.36	23.92	2.0665	1.3215	735 9	. 594	.5939
ż	8.271	30.37	23.91	2.0666	1.3135	735.0		
3	8.050	30.44	23.90	2.0715	1.3020	735.0		
4	7.839							
<del>4</del> 5		30.87	23.89	2.1008	1.2884	753.1		
	7.640	30.80	23.87	2.0962	1.2757	747.5		
6	7.446	30.55	23.84	2.0794	1.2635	734.0		
7	7.257	30.17	23.81	2.0533	1.2554	715.2		.5912
8	7.073	29.93	23.78	2.0372	1.2479	703.4		<b>.</b> 5827
	6.897	29.82		2.0295		698.2		.5796
10			23.71			697.3		.5800
11	6.575		23.67	2.0271	1.2343	699. Ø	.582	.5821
12	6.431	29.70	23.64	2.0215	1.2322	696.6	.581	.5805
13	6.298	29.51	23.61	2.0083	1.2296	688.2	. 574	. 5737
14	E. 178	29.33	23.58	1.9963	1.2271	680.3	. 567	. 5673
15	6. 070	29.21	23.56	1.9877	1.2249	674.6	.563	.5628
16	5.976		23.54	1.9831		671.6	.561	.5606
17	5.899		23.53	1.9792	1.2225		. 558	. 5585
18	5.837		23.52	1.9762	1.2219		, .557	.5567
19	5.793		23.52	1.9740	1.2215		1.555	. 5553
201	5.766							
2Ø 21		28.99	23.52	1.9727	1.2212	664.1	. 554	. 5544

# FREE STATION 12.000 IS INDEX 16

STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE
NUMBER			ANGLE	SLOPE			
1	8.500	-1.050	0.00	0.00	<b>0.0000</b>	.1008	. 0684
2	8.271	-1.050	Ø. ØØ	. 37	0028	.1014	. 0684
3	8.050	-1.050	ଡ. ଡଡ	.72	0056	.1023	. 0684
4	7.839	-1.050	Ø. ØØ	1.01	0081	.1038	. 0684
5	7.640	-1.050	ଡ. ଡଡ	1.25	0105	. 1047	. 0684
6	7.446	-1.050	Ø. ØØ	1.45	0128	.1054	.0684
7	7.257	-1.050	0.00	1.62	0151	.1056	. Ø684
8	7.073	-1.050	0.00	1.76	0174	.1059	. Ø684
9	6.897	-1.050	Ø. ØØ	1.83	0194	.1062	.0684
10	6.730	-1.050	Ø. ØØ	1.84	0211	.1065	. Ø684
11	6.575	-1.050	0.00	1.78	0222	.1066	.0684
12	6.431	-1.050	ଡ. ଡଡ	1.65	0226	.1065	. Ø684
13	6.298	-1.050	Ø. ØØ	1.48	0220	.1065	. 0684
14	6.178	-1.050	Ø. ØØ	1.25	0202	. 1064	.0684
15	6.070	-1.050	ଡ. ଡଡ	. 99	0172	. 1064	. Ø684
16	5.976	-1.050	Ø. ØØ	.73	0134	.1064	.0684
17	5.899	-1.050	0.00	. 49	0093	- 1064	.0684
18	5.837	-1.050	ଡ. ଡଡ	.28	0055	.1064	. 0684
19	5.793	-1.050	Ø. ØØ	- 13	0025	- 1064	. Ø684
20	5.766	-1.050	ଡ. ଡଡ	.03	0006	.1064	.0684
21	5.757	-1.050	ଡ. ଡଡ	0.00	Ø. ØØØØ	.1064	. Ø684

FREE STATION 13.000 IS INDEX 17

STRM- L.INE NUMBER	RADIUS	AXIAL CODRD.	AXIAL VELOC.	MERID. VELOC.	TANG. VELOC.	ABSOL. VELOC.	TOTAL TEMP.	STATIC TEMP.
1	8.500	750	752.0	752.0	0.0	752.0	685.45	638.60
2	8.273	750	749.8	749.9		749.8	681.31	634.71
3	8.053	750	749.9	750.0		750.0	675.36	628.73
4	7.844	750	765.7	765.8		765.8	668.32	619.69
5	7.646	750	758.8	759.0			661.69	613.91
6	7.453	750	743.9	744.1	0.0	744.1	655.40	609.45
7	7.265	750	723.6	723.8			651.19	607.72
8	7.082	750	709.9	710.2			647.29	605.42
9	6.906	750	702.5	702.8	0.0		643.98	602.98
10	6.739	750	699.3	699.6	0.0	699.6	641.42	600.79
11	6.583	750	698.8	699.1	0.0	699.1	640.25	599.67
12	6.439	750	694.2	694.4			639.16	599.13
13	6.305	750	683.7	683.9			637.80	598.96
14	6.183	750	674.0	674.1	0.0	674.1	636.50	598.77
15	6.074	750	666.8	666.9	0.0	666.9	635.35	598.42
16	5.980	750	662.B	662.9	0.0	662.9	634.55	598.06
1.7	5.901	750	659.6	659.7	0.0	659.7	634.14	598.01
18	5.838	750	657.1	657.1	0.0	657.1	633.82	597.97
1 <del>'9</del>	5.793	750	655.3	655.3	0.0	655.3	633.60	597.94
20	5.766	750	654.1	654.1	0.0	654.1	633.46	597.93
21	5.757	750	653.8	653.8	0.0	653.8	633.41	597.92
STRM-	RADIUS	TOTAL	STATIC	TOTAL	TOTAL	ABSOL.	ABSOL.	ABSOL.
STRM- LINE	RADIUS	TOTAL PRESS.	STATIC PRESS.		TOTAL TEMP.	ABSOL. VELOC.		ABSOL. MACH
	RADIUS	TOTAL PRESS.	STATIC PRESS.	PRESS.	TEMP.	ABSOL. VELOC.	MACH	MACH
LINE		PRESS.	PRESS.	PRESS. RATIO	TEMP. RATIO	VELOC.	MACH NUMBER	MACH NUMBER
LINE NUMBER 1 2	8.500 8.273			PRESS.	TEMP. RATIO 1.3215	VELOC. 752.0	MACH NUMBER .607	MACH NUMBER .6069
LINE NUMBER 1	8.500	PRESS. 30.36	PRESS. 23.67	PRESS. RATIO 2.0665	TEMP. RATIO 1.3215 1.3135	VELOC. 752.0 749.8	MACH NUMBER .607 .607	MACH NUMBER .6069 .6070
LINE NUMBER 1 2 3 4	8.500 8.273	PRESS. 30.36 30.37	PRESS. 23.67 23.67	PRESS. RATIO 2.0665 2.0666	TEMP. RATIO 1.3215 1.3135 1.3020	VELOC. 752.0	MACH NUMBER .607	MACH NUMBER .6069
LINE NUMBER 1 2 3 4 5	8.500 8.273 8.053	PRESS. 30.36 30.37 30.44	PRESS. 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715	TEMP. RATIO 1.3215 1.3135	VELOC. 752.0 749.8 750.0	MACH NUMBER .607 .607 .610	MACH NUMBER .6069 .6070 .6100
LINE NUMBER 1 2 3 4	8.500 8.273 8.053 7.844	PRESS. 30.36 30.37 30.44 30.87	PRESS. 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884	752.0 749.8 750.0 765.8	MACH NUMBER .607 .607 .610 .627	MACH NUMBER .6069 .6070 .6100 .6274
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.273 8.053 7.844 7.646	PRESS. 30.36 30.37 30.44 30.87 30.80	PRESS. 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757	752.0 749.8 750.0 765.8 759.0	MACH NUMBER .607 .607 .610 .627	MACH NUMBER .6069 .6070 .6100 .6274 .6247
LINE NUMBER 1 2 3 4 5 6 7 8	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55	PRESS. 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635	752.0 749.8 750.0 765.8 759.0 744.1	MACH NUMBER .607 .607 .610 .627 .625	MACH NUMBER .6069 .6070 .6100 .6274 .6247
LINE NUMBER 1 2 3 4 5 6 7	8.500 8.273 8.053 7.844 7.646 7.453 7.265	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554	752.0 749.8 750.0 765.8 759.0 744.1 723.8	MACH NUMBER .607 .607 .610 .627 .625 .615	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147
LINE NUMBER 1 2 3 4 5 6 7 8 9 10	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082	PRESS. 30.36 30.37 30.44 30.87 30.55 30.17 29.93 29.82	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0372	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479	752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2	MACH NUMBER .607 .607 .610 .627 .625 .615 .599	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5988
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082 6.906 6.739 6.583	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17 29.93 29.82 29.78 29.79	PRESS.  23.67  23.67  23.67  23.67  23.67  23.67  23.67  23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0372 2.0295	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415	752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8	MACH NUMBER .607 .607 .610 .627 .625 .515 .599 .589	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5988 .5837
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082 6.739 6.583 6.439	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17 29.93 29.82 29.78 29.79	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0372 2.0295 2.0270	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366	752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6	MACH NUMBER .607 .607 .610 .627 .625 .599 .589 .584	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5988 .5887 .5821
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082 6.739 6.583 6.439 6.305	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17 29.93 29.82 29.78 29.79	PRESS.  23.67  23.67  23.67  23.67  23.67  23.67  23.67  23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0372 2.0295 2.0270 2.0271	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343	752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1	MACH NUMBER .607 .607 .610 .625 .625 .599 .589 .584 .582	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5988 .5887 .5837 .5821
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082 6.739 6.583 6.439 6.305 6.183	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17 29.93 29.78 29.78 29.79 29.70 29.51	PRESS.  23.67  23.67  23.67  23.67  23.67  23.67  23.67  23.67  23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0372 2.0295 2.0271 2.0215	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271	752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4	MACH NUMBER .607 .607 .610 .627 .625 .515 .599 .589 .582 .582	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5988 .5887 .5821 .5822 .5786
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	8.500 8.273 8.053 7.844 7.646 7.453 7.265 7.082 6.739 6.739 6.583 6.183 6.183 6.074	PRESS.  30.36  30.37  30.44  30.87  30.55  30.17  29.93  29.78  29.78  29.79  29.79  29.33  29.31	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0275 2.0275 2.0275 2.0275 2.0275 2.0275 2.0275 2.0275 2.0275	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249	VELOC.  752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4 683.9 674.1 666.9	MACH NUMBER .607 .607 .610 .627 .625 .599 .589 .582 .582 .579 .562 .556	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5988 .5837 .5821 .5822 .5618 .5618 .5560
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	8.500 8.273 7.853 7.844 7.655 7.265 7.082 6.739 6.739 6.383 6.183 6.190	PRESS.  30.36  30.37  30.44  30.87  30.55  30.17  29.93  29.78  29.79  29.51  29.33  29.21  29.14	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0295 2.0270 2.0271 2.0215 2.0083 1.9963 1.9877 1.9831	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233	VELOC.  752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4 683.9 674.1 666.9 662.9	MACH NUMBER .607 .607 .610 .625 .615 .599 .589 .582 .579 .562 .570 .566 .553	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5983 .5821 .5821 .5822 .5618 .5618 .5568
LINE NUMBER 1 2 3 4 5 6 7 8 9 0 11 12 13 14 15 16 17	8.500 8.273 7.053 7.644 7.453 7.2682 6.733 6.733 6.733 6.905 6.905 5.901	PRESS.  30.36  30.37  30.44  30.87  30.55  30.17  29.93  29.78  29.79  29.70  29.33  29.21  29.14  29.08	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0270 2.0270 2.0271 2.0215 2.0283 1.9831 1.9792	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233 1.2225	VELOC.  752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4 683.9 674.1 666.9 659.7	MACH NUMBER .607 .607 .610 .627 .625 .515 .589 .582 .582 .579 .562 .553 .550	MACH NUMBER .6070 .6100 .6274 .6247 .6247 .59837 .58837 .58831 .58821 .55886 .55618 .55618 .5568
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.273 7.853 7.844 7.453 7.265 7.086 6.733 6.439 6.439 6.183 6.980 5.901 5.901	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17 29.93 29.78 29.79 29.70 29.51 29.33 29.14 29.08	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0270 2.0271 2.0215 2.0083 1.9963 1.9963 1.9963 1.9792 1.9762	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233 1.2225 1.2219	VELOC.  752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4 683.9 674.1 666.9 652.9 657.1	MACH NUMBER .607 .607 .610 .627 .625 .599 .584 .582 .579 .562 .550 .553 .550	MACH NUMBER .6069 .6070 .6100 .6274 .6247 .6147 .5987 .5882 .5882 .5882 .5588 .5588 .5569 .5569 .5568 .5588 .5588
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.500 8.273 7.853 7.844 7.453 7.265 7.265 6.733 6.395 6.395 6.395 6.901 5.901 5.833	PRESS.  30.36  30.37  30.44  30.87  30.87  30.95  30.17  29.93  29.78  29.79  29.70  29.51  29.33  29.14  29.04  29.01	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0270 2.0271 2.0215 2.0283 1.9963 1.9877 1.9831 1.9792 1.9740	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233 1.2235 1.2219 1.2215	VELOC.  752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4 683.9 674.1 666.9 659.7 657.1 655.3	MACH NUMBER .607 .607 .610 .627 .625 .599 .584 .582 .570 .556 .556 .553 .5548	MACH NUMBER .6069 .6070 .6100 .6247 .6247 .6247 .5987 .5887 .58821 .58821 .5569 .5569 .5568 .5568 .5568 .5568 .5568
LINE NUMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	8.500 8.273 7.853 7.844 7.453 7.265 7.086 6.733 6.439 6.439 6.183 6.980 5.901 5.901	PRESS. 30.36 30.37 30.44 30.87 30.80 30.55 30.17 29.93 29.78 29.79 29.70 29.51 29.33 29.14 29.08	PRESS. 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67 23.67	PRESS. RATIO 2.0665 2.0666 2.0715 2.1008 2.0962 2.0794 2.0533 2.0270 2.0271 2.0215 2.0083 1.9963 1.9963 1.9963 1.9792 1.9762	TEMP. RATIO 1.3215 1.3135 1.3020 1.2884 1.2757 1.2635 1.2554 1.2479 1.2415 1.2366 1.2343 1.2322 1.2296 1.2271 1.2249 1.2233 1.2225 1.2219	VELOC.  752.0 749.8 750.0 765.8 759.0 744.1 723.8 710.2 702.8 699.6 699.1 694.4 683.9 674.1 666.9 652.9 657.1	MACH NUMBER .607 .607 .610 .627 .625 .599 .584 .582 .579 .562 .550 .553 .550	MACH NUMBER .6069 .6070 .6100 .6247 .6147 .5987 .58821 .58821 .58821 .55698 .55698 .55688 .55691 .55480

Compared to the state of the st

FREE ST	בו מחודם	3.000 IS	TNDEY +	١7				
	712614 26	/# <del>************************************</del>	TIADEN 1	. /				
STRM-	RADIUS	AXIAL	ABSOL.	STRM-	CURVA-	DENS-	BLOC-	
LINE		COORD.	FLOW	LINE	TURE	ITY	KAGE	
NUMBER	2 522		ANGLE	SLOPE				
1	8.500	750	0.00	0.00	0.0000	. 1001	. 0730	
2	8.273	750	0.00	. 35	0.0000	.1007	.0730	
3	8.053	750	0.00	.68	<b>0.0000</b>	.1016	.0730	
4	7.844	750	0.00	. 94	Ø. ØØØØ	. 1031	.0730	
5	7.646	750	0.00	1.16	0.0000	- 1041	.0730	
6	7.453	750	0.00	1.34	0.0000	1048	.0730	
7	7.265	750	0.00	1.49	Ø. ØØØØ	. 1051	. 0730	
8	7.082	750	0.00	1.61	0.0000	. 1055	.0730	
9	6.906	750	0.00	1.66	0.0000	.1060	. 0730	
10	6.739	750	0.00	1.66	Ø. ØØØØ	. 1064	.0730	
11 12	6.583	750	0.00	1.59	0.0000	. 1066	. 0730	
13	6.439	750	0.00	1.46	0.0000	. 1067	.0730	
14	6.305 6.183	750	0.00	1.28	0.0000	. 1067	. 0730	
15	6.074	750 750	Ø. ØØ	1.07	0.0000	.1067	.0730	
16	5.980	750 750	0.00 0.00	.84	Ø. 0000	.1068	.0730	
17	5.901	750 750	0.00 0.00	.62	Ø. 0000	.1068	.0730	
18	5.838	750	Ø. ØØ	.41 .24	ଡ. ଡଡଡଡ ଡ. ଡଡଡଡ	.1069	.0730	
19	5.793	750	Ø. ØØ			.1069	.0730	
έã	5.766	750 750	0.00	.11	Ø. ØØØØ	.1069	.0730	
21	5.757	750 750	0.00	.03 0.00	ଡ. ଡଡଡଡ ଡ. ଡଡଡଡ	.1069 .1069	.0730 .0730	

870901005 - PBS ROTOR #1 AERODYNAMIC ANALYSIS - THRU BLADE

THE MAXIMUM ROTOR D-FACTOR .585 OCCURED AT STAGE 1 ON STREAMLINE 2. THE MAXIMUM VANE D-FACTOR .483 OCCURED AT STAGE 1 ON STREAMLINE 21.

THE MAXIMUM MERIDINAL MACH NO. .766 OCCURED AT STATION 6 ON STREAMLINE 5.

### PERFORMANCE SUMMARY FOR 870901005:

		SPEC FLOW	FLOW RATE	CORR FLOW		-S T A	G E	VANE	CU	MULATI	VE
		IN	IN	IN	P/P	ADIA EFF.	POLY EFF.	TD VANE	P/P	ADIA EFF.	POLY EFF.
REFERE	NCE		59.52	59.53							
ROTOR	.1	41.86	59.52	59.53	2.144	92.3	93.1	93.1	2.144	92.3	93.1
STAGE	1	28.24	59.52	31.21	2.048	86.2	87.5		2.048	86.2	87.5
		EN	TRABV	MASS AV	ERAGED	ROTOR	VANE	RESET			

			MASS A	<i>J</i> ERAGED	ROTOR	VANE	RESET
		ENTROPY	TOTAL	TOTAL	TIP	HUB	ANGLE
		RISE	PRESS	TEMP	MACH	MACH	
			-URE	-ATURE	NO.	NO.	
REFEREN	4CE		14.69	518.71			
ROTOR	1	1.6	31.50	655.35	.78		
STAGE	1	2.9	30.10	655.39		.62	

CORRECTED RPM 20212.
FLOW COEF. .231
OVERALL ADIA. EFF. 86.18
PT COEF. .797
WORK COEF. .924
FLOW 59.52
RPM 20212.2
PRESSURE RATIO 2.048
EFFICIENCY 86.18

#### REFERENCES

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